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Fertilizer Report

August 1 to December 31, 1921

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BUREAU OF CHEMISTRY



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PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
Bureau of Chemistry

PRODUCTS ANALYZED

OFFICIAL SAMPLES SECURED BY SPECIAL AGENTS

FERTILIZERS

FEEDING STUFFS

LINSEED OIL

PAINT

PUTTY

TURPENTINE

AGRICULTURAL LIME

SPECIAL SAMPLES FOR RESIDENTS OF THE STATE

FEEDING STUFFS, \$1.00

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LETTER OF TRANSMITTAL.

PENNSYLVANIA
DEPARTMENT OF AGRICULTURE
BUREAU OF CHEMISTRY

Harrisburg Pa., June 20, 1922

Hon. Fred Rasmussen,
Secretary of Agriculture,
Harrisburg, Pa.

Dear Sir:—I have the honor to transmit herewith for your approval a report of the results of the inspection and chemical analyses of the official samples of commercial fertilizers received from the Special Agents of this Bureau, which were selected from the dealers and selling Agents throughout the State during the Fall inspection season from August 1st to December 31st, 1921.

It is recommended that this report be published in bulletin form for distribution.

Very respectfully,

JAMES W. KELLOGG,

Chief Chemist.



FERTILIZER REPORT

August 1 to December 31, 1921.

INTRODUCTION.

Special Agents of the Bureau of Chemistry, during the Fall inspection season, selected from dealers and selling Agents throughout the State 955 official samples of fertilizers, which were submitted with separate reports covering each, showing brand names, names of Manufacturers and Selling Agents, guarantees, methods of labeling and retail selling prices. Of this number 847, representing shipments of 557 different registered brands sold to the trade by 59 manufacturing firms, were analyzed to determine the correctness of guarantees, which were found printed upon sacks or attached cards, as well as shown in registrations. Those samples not analyzed included several brands which had not been registered, where it was found necessary to take action against dealers who had offered them for sale, and duplicate samples of brands not deemed necessary to analyze in order to avoid duplication. The samples analyzed were arranged in six classes, according to their general composition, which, together with the number of samples in each class, were as follows: Complete Fertilizers, 460; Nitrogen and Phosphoric Acid Fertilizers, 94; Ground Bone Fertilizers, 40; Acidulated Phosphate Fertilizers, 127; Rock and Potash Fertilizers, 96; and Miscellaneous Fertilizers, 30. The results of analyses will be found in detail in the Tables, which follow, for each of these classes. Of the total number analyzed 77, or 9.1 per cent., were found deficient in one or more forms of plant food and the number of those deficient in each, together with the samples in each class, which were less than guaranteed, will be found in the paragraph headed "Deficiencies" with Table. This percentage of deficiencies was about half that reported for the fertilizers analyzed during the corresponding Fall season of 1920. Microscopical examinations were made in the case of the brands having the word "Bone" as a part of the brand name and in those containing organic nitrogen wherein it is required that, if such materials as untreated leather, hoof, horn or wool waste be used, the labels show the presence of the same, no violations being noted. In the case of the Complete Fertilizers it was found that more than one-fourth, or 105, were guaranteed to contain from 14 to 20 per cent. of total

plant food and, therefore, these grades were considered as "high formula" brands. An average of these samples gave 1.86 per cent. nitrogen, 10.18 per cent. available phosphoric acid, 4.12 per cent. potash, with an average retail value of \$37.11 a ton, which would give an average value for total plant food of \$2.30 a unit. The remaining samples represented brands containing less than 14 per cent. of total plant food, showing an average of 1.18 per cent. nitrogen, 8.71 per cent. available phosphoric acid and 2.49 per cent. potash, retailing at an average of \$31.38 a ton, which would equal \$2.53 a unit for total plant food. It will be noted that the cost per unit of plant food was 23¢ less in the case of high grade fertilizers. The average retail selling value estimated for each class of fertilizers showed marked reductions compared with those estimated for the five preceding inspection seasons and compared with those received during the Fall of 1920 there were reductions in selling prices of from 24.8 to 31.9 per cent. These average and comparative values are shown in detail in the paragraph which follows, entitled "Average Analyses and Retail Prices", with Table. It will be of interest to point out the wide variations in retail values which occurred in the case of the Complete Fertilizers, where certain brands having the same formula and supplying like amounts of plant food were included. Those brands having the formula 1-8-2, of which there were 56 samples, sold for from \$24.50 to \$40, averaging \$30.51, showing a difference of \$15.50 a ton. The 43 samples of 1-8-1 fertilizers sold for from \$25 to \$37.50 averaging \$29.59, showing a difference of \$12.50 a ton. The 1-8-4 grades, where 47 samples were included, varied from \$28.23 to \$46.75, averaging \$33.39, with a difference of \$18.52 a ton. In the case of Acid Phosphate Fertilizers the minimum retail selling value was \$17 a ton for a brand analyzing 18 per cent; the maximum \$35.20 in a brand analyzing 17.41 per cent. available phosphoric acid, a difference of \$18.20 a ton for fertilizers supplying nearly the same amounts of available phosphoric acid. These illustrations of fluctuations in selling values clearly demonstrate, as has been illustrated in previous reports, the fact that it is not only desirable to pay strict attention to quotations for fertilizers but that the most plant food can be had for the least money where high analysis brands are purchased.

In the following pages will be found "Acknowledgments"; Table I, showing results of analyses of Complete Fertilizers by separate formula grades; "Deficiencies" with table showing classification, number of samples in each and number deficient in each class; "Average Analyses and Retail Prices" with tables, "Key to Tables"; and tables from II to VII, showing the results of the chemical analyses in detail according to each classification.

ACKNOWLEDGMENTS.

The reception and preparation of samples and supervision of the details of the analytical work were in charge of Mr. V. B. Hausknecht, First Assistant Chemist, who also made duplicate analyses and check determinations where required. Assistance in the analytical work and microscopical examinations were by Mr. H. E. Gensler, Assistant Chemist, and the chemical analyses were made by the following Assistant Chemists: Messrs. G. J. Kuhlmann, Jr., F. B. Williams, C. R. Engle, Leroy Pennypacker and W. F. Boath. Mr. W. E. Huber, Clerk, assembled the necessary data for this report and supervised the preparation of Tables and the samples were prepared for analysis by Mr. W. W. Cassel, Laboratory Assistants.

TABLE I.—AVERAGE ANALYSIS OF COMPLETE FERTILIZERS BY FORMULA GRADES.

Formula.	Number of Brands.	Number of Samples.	Nitrogen.	Phosphoric Acid.	Potash.	Price.
1-10-4,	1	1	0.12	10.26	4.33	\$25.00
1-6-1,	1	1	0.60	6.40	1.73	24.00
1-7-1,	1	1	0.60	7.89	1.14	26.00
1-7-2,	2	5	0.77	7.82	1.95	28.68
1-7-3,	1	1	0.63	7.55	3.48	28.00
1-8-1,	1	1	0.50	7.59	0.54	30.00
1-8-1,	4	5	0.58	8.38	1.04	28.66
1-8-2,	2	3	0.60	8.46	2.24	29.00
1-8-3,	1	1	0.81	8.19	3.03	30.00
1-7-1,	17	21	0.97	7.57	1.15	28.89
1-7-4,	1	1	1.05	8.81	4.24	34.00
1-8-1,	26	43	0.97	8.62	1.23	29.59
1-8-2,	34	56	0.99	8.62	2.25	30.51
1-8-3,	5	10	0.98	9.15	3.38	29.61
1-8-4,	28	47	0.98	8.62	4.32	33.39
1-8-5,	1	2	0.91	8.15	4.99	34.50
1-9-1,	1	1	0.95	9.96	1.10	30.75
1-9-2,	8	15	1.01	9.53	2.22	32.59
1-9-3,	18	29	1.01	9.72	3.23	31.49
1-9-4,	1	2	1.16	9.86	4.44	34.11
1-10-1,	6	8	1.05	10.36	1.31	30.71
1-10-2,	5	6	0.95	10.53	1.90	32.21
1-10-2,	1	1	1.05	10.63	1.02	32.00
1-10-1,	1	1	1.55	7.68	2.12	31.95
1-1-7-2,	1	3	1.51	8.08	3.27	34.67
1-1-7-3,	1	3	1.76	8.16	3.64	28.77
2-7-3,	1	1	1.73	8.47	1.10	27.00
2-8-1,	1	1	1.75	8.58	2.23	33.75
2-8-2,	35	59	1.79	8.59	3.14	35.74
2-8-3,	18	28	1.77	8.86	4.36	35.91
2-8-4,	10	15	1.73	8.92	5.18	37.74
2-8-5,	12	22	1.78	8.24	10.37	47.75
2-8-10,	3	4	1.89	9.67	3.27	35.50
2-9-3,	3	3	1.75	9.72	5.07	.....
2-9-5,	1	1	1.80	10.70	2.38	33.29
2-10-2,	4	5	1.75	10.62	4.30	35.41
2-10-4,	6	12	1.81	12.61	2.26	36.56
2-12-2,	17	28	2.59	9.02	3.36	38.69
3-8-3,	4	4	2.67	9.06	4.36	40.63
3-8-4,	2	2	2.51	8.80	5.18	38.50
3-8-5,	1	1	2.86	9.37	2.34	36.50
3-9-2,	1	1	3.67	8.50	4.41	39.25
4-8-4,	1	1	2.91	9.42	8.35	45.25
4-8-6,	1	1	2.70	8.92	5.83	.....
4-8-7,	1	1	3.50	7.91	7.13	50.00
5-8-7,	1	1				
Totals,	291	460	1.34	9.04	2.86	\$32.88

DEFICIENCIES.

Of the total number of samples received during the Fall season, 77, or 9.1 per cent., were deficient in one or more forms of plant food, showing a slight decrease in the number of failures to meet guarantees, compared with the preceding Spring samples and about half of the number of deficiencies compared with the fertilizers received during the Fall of 1920. In many cases the deficiencies in one element were balanced by overages in another, the majority exceeding their guarantees. These deficiencies are noted in the tables showing results of analyses by an asterik (*) prefixed to the percentages found. Only those were considered deficient where they were found, upon analysis, to be .2 per cent. or more below their guarantees and in the case of guarantees of .50 per cent. or less, deficiencies were noted in those cases where they were .10 per cent. or more below their guarantees. Of the 615 guaranteed for nitrogen, 13, or 2.1 per cent., were deficient; 38, or 4.9 per cent., of the 779 samples having available phosphoric acid guarantees were deficient and of the 692 containing potash, 26, or 3.8 per cent., were deficient. There were 49 guaranteed for total phosphoric acid and 6, or 12.2 per cent., of these failed to meet their guarantees. Taking the fertilizers as a group there were 11.3 per cent. of the Complete Fertilizers, 7.4 per cent. of Nitrogen and Phosphoric Acid Fertilizers, 12.5 per cent. of the Ground Bone Fertilizers, 9.4 per cent. of the Rock and Potash Fertilizers, and 14.3 per cent. of the Miscellaneous Fertilizers, which were deficient in one or more forms of plant food, compared with their guarantees. The following Table will show the number of samples of each class and those deficient in nitrogen, phosphoric acid and potash:

Classes of Fertilizers.	Number of samples.	Deficient in nitrogen.	Deficient in available phosphoric acid.	Deficient in Potash.
Complete fertilizers,	460	7	29	21
Nitrogen and phosphoric acid fertilizers,	94	†3	4	.....
Ground bone fertilizers,	40	.....	*5	.....
Acidulated phosphate fertilizers,	127	.....	.....	.....
Rock and potash fertilizers,	96	.....	5	4
Miscellaneous fertilizers,	30	3	†*1	1
Totals,	847	13	44	26

*Total phosphoric acid,

†One sample not guaranteed. Compared with registered guarantee.

AVERAGE ANALYSES AND RETAIL PRICES.

The average compositions of the five classes of fertilizers, compared with the averages estimated for the same classes analyzed during recent preceding inspection seasons will show no marked differences with the possible exception that in the case of complete Fertilizers the average available phosphoric acid and potash contents were slightly higher and the average potash in the Rock and Potash Fertilizers was .53 per cent. higher than estimated for the Spring of 1921 brands of these respective classes.

The average retail selling prices, however, show decided reductions compared with the average values estimated for the brands received during the Spring and Fall inspection seasons of 1919 and 1920 and the Spring of 1921. Compared with the preceding Fall of 1920 brands the following percentage reductions for each class were noted as follows: Complete Fertilizers, 29.8 per cent; Nitrogen and Phosphoric Acid Fertilizers, 24.8 per cent; Ground Bone Fertilizers, 31.4 per cent; Acidulated Phosphate Fertilizers, 31.9 per cent. and Rock and Potash Fertilizers, 26.4 per cent. The estimated average retail unit values will show corresponding reductions.

In order that some idea of the average retail unit values for nitrogen, phosphoric acid and potash can be had, values for these elements were estimated by making use of the average available phosphoric acid and retail selling prices for the Acid Phosphate Fertilizers, which gave a value of \$1.33 a unit, or 63¢ a pound, for phosphoric acid. The value of nitrogen in the Nitrogen and Phosphoric Acid Fertilizers, considering \$1.33 as the unit value of phosphoric acid, gave \$12.18 a unit, or 60¢ a pound, for nitrogen. By making use of these two values, as applied to the average composition of the Complete Fertilizers, a value of \$1.59 a unit, or 8¢ a pound, was estimated for water soluble potash. In a similar manner, by using the value of \$1.33 a unit for phosphoric acid a value of \$4.25 a unit, or 21¢ a pound, is found for potash in the Rock and Potash Fertilizers. By making use of the same value for phosphoric acid and \$4.25 a unit for potash, another value of \$6.49 a unit, or 32¢ a pound, was found for nitrogen, as supplied by the Nitrogen and Phosphoric Acid Fertilizers. These estimated average retail unit values, therefore, would be as follows: For nitrogen, from \$6.49 to \$12.18 a unit; for available phosphoric acid, \$1.33 a unit; and for water soluble potash, from \$1.59 to \$4.25 a unit. In the following Table will be found the average compositions and retail selling values of the several classes

of fertilizers included in this report. The average values reported for the preceding Spring of 1921 and Fall of 1920 brands, in order that the fluctuations in values may be compared are also included.

	Complete Fertilizers.	Nitrogen and phosphoric acid fertilizers, (dissolved bones, etc.).	Ground bone fertilizers.	Acidulated phosphate fertilizers.	Rock and potash fertilizers.
Number of samples,	469	94	40	127	96
Moisture,	% 4.08	% 2.99	% 4.44	% 2.29	% 3.51
Total nitrogen,	1.34	1.43	3.16	.....	.....
Total phosphoric acid,	10.14	12.19	23.91	17.38	11.35
Available phosphoric acid,	9.04	10.63	.....	16.60	10.60
Insoluble phosphoric acid,	1.10	1.56	.....	0.78	0.75
Potash,	2.86	.....	.....	.....	3.66
Mechanical analysis of bone:					
Fine, .....	.....	.....	63	.....	.....
Coarse, .....	.....	.....	37	.....	.....
Selling price,	\$32.88	\$31.56	\$43.53	\$22.07	\$29.66
Average selling price, Spring 1921, ..	\$39.36	\$34.45	\$55.02	\$25.20	\$33.73
Average selling price, Fall 1920,	\$46.82	\$41.96	\$63.43	\$22.43	\$40.31

KEY TO TABLES.

The following tables include the detailed results of chemical analyses of each sample. All samples were given a chemist's number as shown in the extreme left and right hand columns and are grouped in alphabetical order of manufacturers and brand names. Each class is shown in separate tables and the following information will serve as a key to these tables:

The asterisk (*) indicates the cases where total nitrogen, available phosphoric acid and total potash were deficient to the extent of .2 per cent. or more below their respective guarantees. In cases where the guarantees were .5 per cent. or less the deficiencies noted are where the amount was .1 per cent. or more below the guarantees.

Order of results of analysis: Moisture, Total Nitrogen found and guaranteed, Total Phosphoric Acid found and guaranteed; Available Phosphoric Acid found and guaranteed; Insoluble Phosphoric Acid found and guaranteed, Total Potash found and guaranteed. The Potash is also shown in the Muriate and Sulphate forms.

To determine the formula of any brand, as guaranteed, multiply Total Nitrogen guaranteed by 1.2158 to obtain Ammonia and then use this figure and the guarantees for Available Phosphoric Acid and Total Potash. For example, Nitrogen guarantee equals .82% ($.82 \times 1.215 = 1\%$). Ammonia equals 1% Available Phosphoric Acid 8% Potash 1%. Formula therefore is 1-8-1.

Complete Fertilizers, Table II, furnishing Nitrogen, Phosphoric Acid and Potash.

Nitrogen and Phosphoric Acid Fertilizers, Table III, including Dissolved Bones and other like products.

Ground Bone Fertilizers, Table IV, furnishing Nitrogen and Phosphoric Acid.

Acidulated Phosphate Fertilizers, Table V, furnishing Phosphoric Acid.

Rock and Potash Fertilizers, Table VI, furnishing Phosphoric Acid and Potash.

Miscellaneous Fertilizers, Table VII, including Nitrate of Soda, Sulphate of Ammonia, Tankage, Muriate of Potash, Manure Salt and miscellaneous mixtures.

TABLE II.—COMPLETE

Furnishing Nitrogen.

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.		
2029	Allen's Special For Wheat and Grass, ----	Harvey Detwiler, Chester Springs, ----
214	Low'er's Square Brand Farm and Garden Phosphate, ----	L. K. Beers, Bedminster, ----
1849	Bradley's B. D. Guano, ----	J. S. Cole, Millville, ----
1841	Bradley's Half Century Fertilizer Revised, ----	J. S. Cole, Millville, ----
2164	Bradley's Niagara Phosphate, ----	J. H. Sheffer, Knox, ----
1784	Canton Chemical Baker's Special Wheat Corn & Grass Mixture, ----	A. H. Keeley & Son, Schwencksville, ----
1665	Canton Chemical Baker's Special Wheat Corn & Grass Mixture, ----	King Brothers, Uniontown, ----
1781	Canton Chemical Eagle Phosphate, ----	A. H. Keeley & Son, Schwencksville, ----
2000	Canton Chemical Resurgam Guano, ----	Raymond Evert, Mahanoy City, ----
1782	Canton Chemical Resurgam Guano, ----	A. H. Keeley & Son, Schwencksville, ----
2057	Josiah Cope's Wheat & Grass Special, ----	Jones Eavenson, Christiana, ----
1817	Crescent Complete Manure, ----	McHenry & Masteller, Bloomsburg, ----
1526	Crocker's Complete Manure, ----	I. W. Bunnell, Pleasant Mount, ----
1124	Crocker's Harvest Jewel Fertilizer, ----	I. W. Bunnell, Pleasant Mount, ----
2103	Crocker's Universal Grain Grower, ----	B. F. McCurdy, Grove City, ----
1673	Detrick's Imperial Compound, ----	Jeff Altfather, Berlin, ----
1883	Detrick's Imperial Compound, ----	Czar Beerbower, Somerfield, ----
1552	Detrick's Kangaroo Komplete Kompond, ----	John Greenleaf, Quarryville, ----
1602	Detrick's Kangaroo Komplete Kompond, ----	Miller & Maust, Elk Lick, ----
1658	Detrick's Paragon Ammoniated Phosphate and Potash, ----	H. C. Berritt's Sons, Somerset, ----
1951	W. S. Farmer's General Crop Grower, ----	C. L. King, New Enterprise, ----
2191	W. S. Farmer's General Crop Grower, ----	Jeremiah Thomas, Somerfield, ----
1423	Great Eastern General, ----	H. K. & D. M. Nell, Fleetwood, ----
1849	Great Eastern Special Crop Fertilizer, ----	David F. Climmer, Clayton, ----
1525	High Grade Crop Producer, ----	I. W. Bunnell, Pleasant Mount, ----
1457	Lister's A. B. C. Fertilizer (Abundance Brand Compound), ----	B. B. Fox, Lyons Station, ----
2155	Lister's Ammoniated Dissolved Super-Phosphate, ----	H. Y. Pickering, Yardley, ----
1539	Lister's Big Crop Grower, ----	E. J. Hull, Olyphant, ----
1747	Lister's Corn and Potato Fertilizer, ----	W. McClain, Moscow, ----
2032	Lister's Fish Brand Fertilizer, ----	E. E. Bailey, Northbrook, ----
1428	Lister's Fish Brand Fertilizer, ----	B. B. Fox, Lyons Station, ----
2154	Lister's Fish Brand Fertilizer, ----	H. Y. Pickering & Co., Yardley, ----
2033	Lister's G. Brand, ----	F. E. Bailey, Northbrook, ----
1716	Lister's G. Brand, ----	Wm. Fehr, Cressona, ----
1607	Lister's G. Brand, ----	Knecht Milling Co., Mill Hall, ----
1424	Lister's Golden Sheaf, ----	B. B. Fox, Lyons Station, ----
2197	Lister's Golden Sheaf, ----	N. J. Norton, New Albany, ----
1774	Lister's Harvest Queen Phosphate Revised, ----	Wm. H. Fritz, Berwyn, ----
1773	Lister's Special Crop Producer, ----	Wm. H. Fritz, Berwyn, ----
2113	Lister's Special Crop Producer, ----	R. D. Sames, Coopersburg, ----
1715	Lister's Special Wheat Fertilizer, ----	Wm. Fehr, Cressona, ----
1772	Lister's Special Wheat Fertilizer, ----	Wm. H. Fritz, Berwyn, ----
2112	Lister's Special Wheat Fertilizer, ----	R. D. Sames, Coopersburg, ----
1956	Lister's Special Wheat Fertilizer, ----	Levi K. Ziegler, Lititz, ----
1955	Lister's Squirrel Brand Fertilizer, ----	Levi K. Ziegler, Lititz, ----
1426	Lister's Wheat & Rye Fertilizer, ----	B. B. Fox, Lyons Station, ----
1520	Ludlum's Ceerops Harvest Queen, ----	Curtis Bushey, Clear Springs, ----
1569	Ludlum's Ceerops No. 2 for Grain & Grass, ----	Edward Diehl, Shippenburg, ----
1812	Ludlum's Ceerops Palmetto, ----	Jacob Fleisher, Shermansdale, ----
1911	Ludlum's Ceerops Standard Potash, ----	Jacob Fleisher, Shermansdale, ----
1857	Matchless Potash Manure, ----	Wm. B. Barnitz, Carlisle, ----
1946	Moro-Phillips C. & G. Complete Fertilizer, ----	Eli F. Hornberger, Ephrata, ----
1948	Moro-Phillips Standard Guano, ----	Eli F. Hornberger, Ephrata, ----
1537	Nassau General Favorite, ----	A. A. Chamberlain, Gouldsboro, ----
1949	Nassau General Favorite, ----	J. L. Graybill, Manheim, ----
1941	Nassau Potato Manure, ----	J. L. Graybill, Manheim, ----
1929	Nassau Wheat & Grass Grower, ----	J. L. Graybill, Manheim, ----

FERTILIZERS.

Phosphoric Acid and Potash.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
2.35	1.10	0.82	8.99	8.00	7.45	7.00	1.54	1.00	1.48	1.00	1.48	-----	29 00	2029
1.82	2.00	1.65	10.56	9.00	8.74	8.00	1.82	1.00	2.04	2.00	2.04	-----	32 00	2142
3.19	0.92	0.82	9.98	9.00	8.86	8.00	1.12	1.00	4.03	4.00	4.03	-----	31 75	1840
4.40	1.82	1.65	10.52	9.00	8.60	8.00	2.02	1.00	3.36	3.00	3.36	-----	34 60	1841
1.10	1.00	0.82	9.18	8.00	7.68	7.00	1.50	1.00	1.15	1.00	1.15	-----	32 00	2104
4.01	1.10	0.82	10.92	10.00	9.16	9.00	1.76	1.00	3.18	2.00	3.18	-----	34 00	1784
5.00	1.03	0.82	9.80	10.00	*3.07	9.00	1.82	1.00	2.19	2.00	2.19	-----	35 00	1665
2.20	0.87	0.82	8.58	8.00	7.08	7.00	0.90	1.00	*0.70	1.00	0.70	-----	30 00	1781
1.48	0.93	0.82	9.60	9.00	8.84	8.00	0.76	1.00	4.49	4.00	4.49	-----	36 00	2060
3.82	1.61	0.82	10.16	9.00	8.62	8.00	1.54	1.00	4.13	4.00	4.13	-----	35 00	1782
1.42	0.94	0.82	9.90	9.00	8.16	8.00	1.74	1.00	0.98	1.00	0.98	-----	27 00	2037
3.81	1.74	1.65	10.89	9.00	8.35	8.00	1.04	1.00	*2.79	3.00	2.79	-----	35 00	1817
4.32	0.90	0.82	9.77	9.00	8.47	8.00	1.50	1.00	4.33	4.00	4.33	-----	45 00	1326
4.14	1.70	1.65	9.62	9.00	8.20	8.00	1.42	1.00	2.67	2.60	0.70	1.37	35 00	1324
1.15	0.91	0.82	10.11	9.00	8.87	8.00	1.24	1.00	2.60	2.00	2.60	-----	35 15	2103
3.25	1.01	0.82	9.70	9.00	8.92	8.00	0.78	1.00	2.67	2.00	2.67	-----	34 00	1072
2.12	1.04	0.82	10.58	9.00	8.84	8.00	1.44	1.00	2.12	2.60	2.12	-----	30 00	1883
2.82	1.70	1.65	10.10	9.00	8.60	8.00	1.50	1.00	3.03	3.00	3.03	-----	34 00	1902
3.32	1.63	1.65	10.16	9.00	9.30	8.00	0.86	1.00	3.10	3.00	3.10	-----	36 00	1889
4.11	0.95	0.82	9.24	8.00	7.40	7.00	1.84	1.00	1.10	1.00	1.10	-----	30 00	1658
1.80	0.98	0.82	8.92	8.00	6.98	7.00	1.94	1.00	1.06	1.00	1.06	-----	27 00	1931
4.02	1.00	0.82	8.56	8.00	7.92	7.00	0.64	1.00	1.07	1.00	1.07	-----	30 00	2191
5.32	0.83	0.82	9.19	9.00	8.53	8.00	0.66	1.00	4.31	4.00	4.31	-----	1423	
4.25	0.95	0.82	11.99	11.00	10.75	10.00	1.24	1.00	1.31	1.00	1.31	-----	1849	
2.00	1.80	1.65	9.70	9.00	9.18	8.00	0.52	1.00	4.27	4.00	-----	4.27	45 00	1323
9.62	1.65	1.65	14.11	13.00	12.79	12.00	1.32	1.00	2 18	2.00	2.18	-----	34 44	1427
1.50	1.70	1.65	10.14	9.00	8.76	8.00	1.28	1.00	3.19	3.00	3.19	-----	37 00	2156
10.48	1.50	1.65	10.65	9.00	9.59	8.00	1.06	1.00	4.00	4.00	4.00	-----	26 00	1539
6.91	2.01	1.65	11.62	9.00	9.02	8.00	2.60	1.00	3.03	3.00	3.03	-----	45 00	1547
3.20	1.09	0.82	11.37	10.00	9.93	9.00	1.44	1.00	2.60	2.00	2.60	-----	32 00	2002
6.00	1.00	0.82	10.59	10.00	9.45	9.00	1.14	1.00	2.41	2.00	2.41	-----	28 19	1128
2.35	0.95	0.82	10.75	10.00	9.07	9.00	1.68	1.00	2.54	2.00	2.54	-----	31 75	2154
2.02	1.01	0.82	9.49	9.00	8.79	8.00	0.70	1.00	4.62	4.00	4.62	-----	32 00	2003
2.05	1.05	0.82	9.80	9.00	8.36	8.00	1.34	1.00	4.72	4.00	4.72	-----	1716	
4.07	0.83	0.82	10.01	9.00	8.37	8.00	1.64	1.00	4.36	4.00	4.36	-----	33 00	1467
3.85	0.50	0.82	8.97	9.00	8.23	8.00	0.74	1.00	1.18	1.00	1.18	-----	26 19	1424
2.55	1.63	0.82	10.70	9.00	9.18	8.00	1.52	1.00	1.50	1.00	1.50	-----	36 00	2197
4.02	1.00	0.82	11.04	10.00	9.54	9.00	1.50	1.00	3.29	3.00	3.29	-----	32 00	1774
2.88	0.93	0.82	9.04	8.00	7.70	7.00	1.34	1.00	1.09	1.00	1.09	-----	27 50	1773
1.15	1.06	0.82	9.24	8.00	7.76	7.00	1.48	1.00	1.25	1.00	1.25	-----	28 00	2113
5.37	1.80	1.65	9.58	9.00	8.46	8.00	1.12	1.00	3.06	3.00	3.06	-----	1715	
5.04	1.72	1.65	10.26	9.00	8.78	8.00	1.48	1.00	3.10	3.00	3.10	-----	36 50	1772
1.65	1.75	1.65	10.45	9.00	8.71	8.00	1.74	1.00	3.16	3.00	3.16	-----	35 00	2112
2.65	1.88	1.65	9.19	9.00	8.17	8.00	1.52	1.00	2.19	3.00	3.19	-----	33 00	1956
5.22	1.60	0.82	9.49	9.00	8.13	8.00	1.36	1.00	1.98	2.00	1.98	-----	28 00	1955
10.11	1.50	1.65	11.91	11.00	10.97	10.00	0.94	1.00	2.09	2.00	2.09	-----	32 94	1426
5.41	1.00	0.82	9.50	9.00	*7.40	8.00	2.10	1.00	2.13	2.00	2.13	-----	28 22	1520
4.47	0.90	0.82	8.72	8.00	7.40	7.00	1.32	1.00	1.01	1.00	1.01	-----	26 00	1569
1.37	0.92	0.82	9.72	9.00	8.04	8.00	1.68	1.00	1.12	1.00	1.12	-----	1912	
1.72	1.00	0.82	9.93	9.00	8.67	8.00	1.26	1.00	4.60	4.00	4.60	-----	1911	
1.90	1.06	1.65	9.44	9.00	8.74	8.00	0.70	1.00	2.12	2.00	2.12	-----	31 50	1907
2.24	1.03	0.82	10.17	9.00	8.33	8.00	1.84	1.00	2.33	2.60	2.33	-----	30 00	1947
2.07	1.03	0.82	9.68	9.00	8.70	8.00	0.98	1.00	4.77	4.00	4.77	-----	33 00	1948
5.93	1.25	0.82	9.25	9.00	8.23	8.00	1.02	1.00	*3.69	4.00	3.69	-----	40 75	1537
4.05	0.98	0.82	9.34	9.00	8.46	8.00	0.88	1.00	4.66	4.00	4.66	-----	1940	
3.60	1.81	1.65	9.39	9.00	8.63	8.00	0.76	1.00	4.76	4.00	4.76	-----	1941	
1.67	0.90	0.82	10.46	9.00	9.18	8.00	1.28	1.00	2.26	2.00	2.26	-----	1939	

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
2114	North Western Complete Compound, -----	Erwin Dieterly, Springtown, -----
2115	North Western Shawnee Phosphate, -----	Erwin Dieterly, Springtown, -----
2135	Patapseo Coon Brand Guano, -----	Geo. Itterly, Pen Argyl, -----
2136	Patapseo Money Maker, -----	Geo. Itterly, Pen Argyl, -----
1614	Perkins Special Manure, -----	J. H. Tingley, Coatesville, -----
1874	Pollock's Bull's Eye Guano, -----	Barron & Miller, Friedens, -----
1297	Pollock's Corn, Wheat & Tomato Guano, -----	Jay Blackburn, Cessna, -----
1519	Pollock's Crop Invigorator, -----	Geo. A. Dick, Dillsburg, -----
1452	Pollock's Crop Invigorator, -----	J. H. Scott, Petersburg, -----
1872	Pollock's Special Potato & Tobacco Fertilizer, -----	Barron & Miller, Friedens, -----
1518	Pollock's Special Potato & Tobacco Fertilizer, -----	Geo. A. Dick, Dillsburg, -----
1929	Pollock's Special Potato & Tobacco Fertilizer, -----	Albert Dively, Bedford, -----
1871	Pollock's Special Wheat and Corn Fertilizer, -----	Barron & Miller, Friedens, -----
1296	Pollock's Special Wheat and Corn Fertilizer, -----	Jay Blackburn, Cessna, -----
1842	Reese's Pilgrim Fertilizer, -----	Irwin H. Levengood, Boyertown, -----
1989	Royal Potash Mixture, -----	John Greenleaf, Quarryville, -----
1922	Schaal-Sheldon's Farmers Favorite, -----	J. S. Jackson, Everett, -----
1909	Sharpless & Carpenter's No. 2 For Grain and Grass, -----	Wm. B. Barnitz, Carlisle, -----
1908	Sharpless & Carpenter's Royal Spring Mixture, -----	Wm. B. Barnitz, Carlisle, -----
1780	Susquehanna Ammoniated Phosphate Revised, -----	A. H. Keeley & Son, Schwenksville, -----
1264	Susquehanna Ammoniated Phosphate Revised, -----	D. H. Meyers & Son, Annville, -----
1263	Susquehanna Choice Mixture, -----	D. H. Meyers & Son, Annville, -----
2051	Susquehanna Potato & Tobacco Phosphate, -----	Joe Kettering, Palmyra, -----
1645	Susquehanna Sure Crop, -----	Henry Kreider, Campbelltown, -----
1783	Susquehanna XXV Phosphate, -----	A. H. Keeley & Son, Schwenksville, -----
1644	Susquehanna XXV Phosphate, -----	Henry Kreider, Campbelltown, -----
1999	The Pathfinder 1920, -----	John Greenleaf, Quarryville, -----
1573	Tip Top Fertilizer, -----	Marion Elevator Co., Marion, -----
1564	Tip Top Fertilizer, -----	Walker, Diehl & Walker, Chambersburg, -----
1979	J. E. Tygert's Golden Harvest Phosphate, -----	Hiestand Brothers, Manheim, -----
1387	J. E. Tygert's Golden Harvest Phosphate, -----	J. B. Longenecker, Annville, -----
1740	J. E. Tygert's Golden Harvest Phosphate, -----	C. Travis, East Stroudsburg, -----
1739	J. E. Tygert's Popular Phosphate, -----	C. Travis, East Stroudsburg, -----
1480	J. E. Tygert's Victor Crop Grower, -----	F. A. Ackley, Westfield, -----
2028	Tygert-Allen's Star Brand Phosphate Revised, -----	Harvey Detwiler, Chester Springs, -----
1578	Whann's Chester Valley Complete Fertilizer, -----	Millard Schwalm, Valley View, -----
2151	Whann's Chester Valley Fish & Potash Fertilizer, -----	F. D. Hartzells Sons Co., Chalfont, -----
2179	Wheeler's Corn Fertilizer, -----	James L. Dague, West Brownsville, -----
1816	Williams & Clark's Elk Brand, -----	McHenry & Masteller, Bloomsburg, -----
1851	Williams & Clark's Matchless Fertilizer, -----	Edward Grim, Barto, -----
1818	Williams & Clark's Royal Phosphate Revised, -----	McHenry & Masteller, Bloomsburg, -----
1949	Woodbridge's Champion Stag Phosphate, -----	S. H. Stump, Hopeland, -----
1516	Woodbridge's Champion Stag Phosphate, -----	Robert Wentz, Wellsville, -----
1437	Woodbridge's Farmers Favorite Cereal Compound Revised, -----	Clarence Stump, Grimville, -----
1523	Woodbridge's Fish Mixture No. 1, -----	Robert Wentz, Wellsville, -----
1513	Woodbridge's Triangle Brand, -----	Geo. A. Dick, Dillsburg, -----
1431	Woodbridge's Triangle Brand, -----	J. Alfred Tuplin, Shamrock, -----
1514	Woodbridge's Triumph Phosphate Revised, -----	Robert Wentz, Wellsville, -----
1462	Zell's Ammoniated Superphosphate, -----	H. F. Blair, Huntingdon, -----
1794	Zell's Economizer Phosphate, -----	John W. Root, Kimberton, -----
1793	Zell's Hustler Phosphate, -----	John W. Root, Kimberton, -----
1980	Zell's Hustler Phosphate, -----	J. P. Weber, Penryn, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Guaranteed.	Found.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
2.27	1.06	0.82	9.91	9.00	8.61	8.00	1.30	1.00	*2.88	4.00	2.88	-----	30 75	2114
2.08	1.90	1.65	10.19	9.00	8.75	8.00	1.44	1.00	4.93	4.00	4.93	-----	34 75	2115
2.82	1.07	0.82	10.73	10.00	9.25	9.00	1.48	1.00	2.27	2.00	2.27	-----	29 50	2135
2.75	0.95	0.82	10.03	9.00	8.53	8.00	1.50	1.00	2.30	2.00	2.30	-----	28 50	2136
4.74	1.03	0.82	9.95	9.00	8.09	8.00	1.86	1.00	1.17	1.00	1.17	-----	29 50	1614
2.89	1.99	1.65	9.93	9.00	8.25	8.00	1.68	1.00	2.10	2.00	2.10	-----	33 65	1874
8.06	0.86	0.82	9.31	9.00	*7.40	8.00	1.91	1.00	1.07	1.00	1.07	-----	29 00	1297
3.78	0.98	0.82	10.36	9.00	8.56	8.00	1.80	1.00	4.03	4.00	4.03	-----	31 25	1515
4.22	0.78	0.82	9.75	9.00	8.31	8.00	1.44	1.00	4.69	4.00	4.69	-----	36 15	1452
1.92	1.88	1.65	9.64	9.00	8.42	8.00	1.22	1.00	4.58	4.00	4.58	-----	36 15	1872
6.16	1.70	1.65	9.84	9.00	9.06	8.00	0.78	1.00	4.20	4.00	4.20	-----	35 75	1518
6.10	1.82	1.65	9.83	9.00	9.07	8.00	0.76	1.00	3.97	4.00	3.97	-----	-----	1929
3.59	1.10	0.82	10.50	9.00	8.86	8.00	1.64	1.00	2.37	2.00	2.37	-----	29 90	1871
6.47	0.86	0.82	10.32	9.00	8.30	8.00	2.02	1.00	1.98	2.00	1.98	-----	30 00	1296
2.35	0.82	0.82	9.49	9.00	8.65	8.00	0.84	1.00	4.26	4.00	4.26	-----	-----	1842
2.57	0.93	0.82	8.86	9.00	8.22	8.00	0.64	1.00	2.24	2.00	2.24	-----	29 00	1989
4.37	1.01	0.82	9.73	9.00	8.83	8.00	0.90	1.00	*1.79	2.00	1.30	0.49	32 00	1922
2.10	0.89	0.82	9.22	8.00	8.08	7.00	1.14	1.00	1.71	1.00	1.71	-----	26 50	1568
1.50	1.01	0.82	9.75	9.00	8.61	8.00	1.14	1.00	2.29	2.00	2.29	-----	28 00	1908
2.55	1.96	1.65	10.33	9.00	8.79	8.00	1.54	1.00	2.25	2.00	2.25	-----	37 50	1780
6.55	1.87	1.65	9.67	9.00	8.17	8.00	1.50	1.00	2.09	2.00	2.09	-----	-----	1264
6.38	0.95	0.82	9.89	9.00	*7.61	8.00	2.28	1.00	2.00	2.00	2.00	-----	-----	1263
2.60	1.75	1.65	9.45	9.00	8.09	8.00	1.56	1.00	3.02	3.00	3.02	-----	-----	2051
4.82	0.95	0.82	10.62	10.00	9.96	9.00	0.66	1.00	1.10	1.00	1.10	-----	30 75	1645
5.05	1.08	0.82	9.82	9.00	8.68	8.00	1.14	1.00	1.18	1.00	1.18	-----	30 00	1783
3.20	0.90	0.82	9.18	9.00	*7.59	8.00	1.59	1.00	1.07	1.00	1.07	-----	29 75	1644
2.87	0.90	0.82	11.67	10.00	10.53	9.00	1.14	1.00	2.98	3.00	2.98	-----	30 00	1990
4.80	0.95	0.82	10.41	9.00	8.97	8.00	1.44	1.00	3.41	3.00	3.41	-----	-----	1673
4.25	1.01	0.82	9.49	9.00	8.05	8.00	1.44	1.00	3.04	3.00	3.04	-----	27 50	1564
2.02	1.00	0.82	10.06	9.00	9.00	8.00	1.06	1.00	2.21	2.00	2.21	-----	31 50	1979
6.38	0.95	0.82	9.69	9.00	*7.56	8.00	2.13	1.00	2.06	2.00	2.06	-----	-----	1387
2.40	1.05	0.82	10.26	9.00	8.44	8.00	1.82	1.00	*1.71	2.00	1.71	-----	30 00	1740
8.14	1.05	0.82	8.52	8.00	7.56	7.00	0.96	1.00	1.09	1.00	1.09	-----	28 00	1739
3.14	1.00	0.82	9.80	9.00	8.80	8.00	1.00	1.00	4.26	4.00	4.26	-----	43 00	1480
2.45	1.87	1.65	9.61	9.00	8.29	8.00	1.32	1.00	3.26	3.00	3.26	-----	36 00	2028
3.02	1.80	1.65	9.90	9.00	8.22	8.00	1.68	1.00	3.19	3.00	3.19	-----	-----	1578
2.30	2.17	1.65	11.45	11.00	9.95	10.00	1.50	1.00	2.52	2.00	2.52	-----	35 00	2151
1.17	1.95	1.65	10.49	9.00	8.99	8.00	1.50	1.00	2.48	2.00	2.48	-----	33 50	2179
3.52	1.04	0.82	9.44	9.00	8.50	8.00	0.94	1.00	4.03	4.00	4.03	-----	32 50	1816
8.64	1.58	1.65	9.31	9.00	8.79	8.00	0.52	1.00	2.00	2.00	2.00	-----	32 00	1851
2.74	1.00	0.82	10.06	9.00	8.78	8.00	1.28	1.00	2.51	2.00	2.51	-----	30 00	1818
2.55	1.00	0.82	10.26	10.00	*8.68	9.00	1.58	1.00	2.11	2.00	2.11	-----	-----	1949
5.38	0.90	0.82	10.91	10.00	*8.67	9.00	2.24	1.00	2.09	2.00	2.09	-----	-----	1516
4.12	0.90	0.82	8.20	8.00	7.58	7.00	0.62	1.00	1.08	1.00	1.08	-----	27 00	1437
4.95	0.86	0.82	9.18	8.00	7.24	7.00	1.94	1.00	1.12	1.00	1.12	-----	-----	1523
4.40	0.95	0.82	10.10	9.00	8.38	8.00	1.72	1.00	4.40	4.00	4.40	-----	31 25	1513
4.29	0.84	0.82	9.31	9.00	8.63	8.00	0.68	1.00	3.86	4.00	3.86	-----	-----	1431
5.83	1.74	1.65	10.14	9.00	8.42	8.00	1.72	1.00	3.01	3.00	3.01	-----	-----	1514
5.75	1.79	1.65	10.34	9.00	8.84	8.00	1.50	1.00	2.62	2.00	2.62	-----	28 10	1462
2.27	1.01	0.82	8.92	9.00	8.26	8.00	0.66	1.00	2.30	2.00	2.30	-----	29 00	1794
4.76	0.91	0.82	10.88	10.00	9.06	9.00	1.82	1.00	3.03	3.00	3.03	-----	31 00	1793
8.47	0.96	0.82	10.37	10.00	*8.77	9.00	1.60	1.00	3.14	3.00	3.14	-----	-----	1980

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From— °
AMERICAN FERTILIZING COMPANY, BALTIMORE, MD.		
1657	American Ammoniated Crop Compound, ---	John G. Emert, Somerset, -----
1766	American Fish and Potash Compound, ---	Barnett Brothers, Oxford, -----
2043	American Fish and Potash Compound, ---	Jones Eavenson, Christiana, -----
1655	American Grain & Grass Grower, -----	John G. Emert, Somerset, -----
2045	American Grain & Grass Special, -----	Jones Eavenson, Christiana, -----
1659	American Premium Grain & Clover Mix- ture, -----	John G. Emert, Somerset, -----
2044	American Special Compound Guano, -----	Jones Eavenson, Christiana, -----
ARMOUR FERTILIZER WORKS, BALTIMORE, MD.		
2047	Armour's Big Crop Fertilizer 2-8-5, -----	M. L. Bachman, Lebanon, -----
1478	Armour's Big Crop Fertilizer 2-8-5, -----	Horn & Devling, Galston, -----
2064	Armour's Big Crop Fertilizer 2-8-5, -----	Geo. Seligman, Tamaqua, -----
1694	Armour's Big Crop Fertilizer 2-12-2, -----	Ellis W. Hyman, Jersey Shore, -----
2048	Armour's Big Crop Special Mixture, -----	M. L. Bachman, Lebanon, -----
1302	Armour's Crop Grower, -----	Geo. W. Anderson, Cessna, -----
1895	Armour's Crop Grower, -----	J. C. Fulton & Co., Burgettstown, -----
1346	Armour's Crop Grower, -----	Willis Koch, Potts Grove, -----
1303	Armour's Grain Grower, -----	Geo. W. Anderson, Cessna, -----
1896	Armour's Grain Grower, -----	J. C. Fulton & Co., Burgettstown, -----
1718	Armour's Grain Grower, -----	Heffner & Luckenbill, Friedensburg, -----
1551	Armour's Wheat Corn and Oat Special, ---	H. O. Andrews, Mapleton Depot, -----
2152	Armour's Wheat Corn and Oat Special, ---	F. D. Hartzells Sons Co., Chalfont, -----
1261	Armour's Wheat Corn and Oat Special, ---	Frank J. Kintzle, Richland, -----
1299	Royal Ammoniated, -----	Geo. W. Anderson, Cessna, -----
1785	Tuscarora Ammoniated Phosphate, -----	A. F. Leidy, Delphi, -----
BAUGH & SONS COMPANY, PHILADELPHIA, PA.		
1389	Baugh's Animal Base and Potash Com- pound, -----	Bunting Brothers, Oxford, -----
2184	Baugh's Animal Base and Potash Com- pound, -----	J. G. Cover, Masontown, -----
1587	Baugh's Animal Base and Potash Com- pound, -----	W. W. Haas, Pitman, -----
1399	Baugh's Commercial Super Phosphate, ---	A. G. Zellers, Annville, -----
2144	Baugh's Complete Animal Base Fertilizer, ---	L. K. Beers, Bedminster, -----
1879	Baugh's Complete Animal Base Fertilizer, ---	N. H. Blough, Davidsville, -----
1389	Baugh's Complete Animal Base Fertilizer, ---	A. G. Zellers, Annville, -----
1880	Baugh's Economical Crop Producer, -----	N. H. Blough, Davidsville, -----
1493	Baugh's Excelsior Guano, -----	Flook Brothers, Salladasburg, -----
2130	Baugh's Excelsior Guano, -----	Lehigh Exchange, Inc., Germansville, ---
1416	Baugh's Excelsior Guano, -----	Clarence Shellenberger, Fleetwood, -----
1795	Baugh's Fish Mixture, -----	John W. Root, Kimberton, -----
1833	Baugh's General Crop Grower, -----	A. W. Eves, Millville, -----
1892	Baugh's General Crop Grower, -----	A. C. McClure, Burgettstown, -----
1602	Baugh's General Crop Grower, -----	H. A. Mendenhall, Toughkenamon, -----
1888	Baugh's Grand Rapid Guano, -----	A. G. Zellers, Annville, -----
2131	Baugh's Wheat Fertilizer For Wheat and Grass, -----	Lehigh Exchange, Inc., Germansville, ---
1603	Baugh's Wheat Fertilizer for Wheat and Grass, -----	H. A. Mendenhall, Toughkenamon, -----
1391	Baugh's Wheat Fertilizer for Wheat and Grass, -----	A. G. Zellers, Annville, -----
BOWKER FERTILIZER COMPANY, SUB- SIDIARY OF THE AMERICAN AGRI- CULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.		
2009	Bowker's Hill & Drill Phosphate, -----	Newton Lantz, Atglen, -----
1469	Bowker's Square Brand Farm and Garden Phosphate, -----	Emporium Supply Co., Emporium, -----
1470	Bowker's Staple Phosphate, -----	Emporium Supply Co., Emporium, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
4.80	1.01	0.82	10.18	9.00	8.70	8.00	1.48	1.00	2.39	2.00	2.19	-----	36 00	1657
5.42	2.01	1.65	11.02	9.00	8.74	8.00	2.28	1.00	3.15	3.00	3.15	-----	36 00	1766
2.85	2.00	1.65	11.16	9.00	8.64	8.00	2.52	1.00	3.33	3.00	3.33	-----	35 00	2043
6.24	1.01	0.82	11.35	10.00	9.47	9.00	1.88	1.00	3.00	3.00	3.00	-----	-----	1655
2.42	0.40	0.41	8.99	8.00	7.89	7.00	1.10	1.00	1.14	1.00	1.14	-----	26 00	2045
3.30	1.69	1.65	13.95	13.00	12.71	12.00	1.24	1.00	2.29	2.00	1.40	0.89	-----	1656
1.87	0.63	0.41	8.49	8.00	7.55	7.00	0.94	1.00	3.48	3.00	3.48	-----	28 00	2044
2.20	1.75	1.65	10.26	8.50	9.30	8.00	0.96	0.50	5.35	5.00	5.35	-----	-----	2047
3.00	1.50	1.65	8.16	8.50	*7.42	8.00	0.74	0.50	5.92	5.00	5.92	-----	50 25	1478
2.40	1.94	1.65	9.34	8.50	8.68	8.00	0.66	0.50	5.54	5.00	5.54	-----	45 00	2064
4.30	1.99	1.65	13.84	12.50	12.92	12.00	0.92	0.50	2.25	2.00	2.25	-----	38 60	1694
3.00	1.94	1.65	12.49	9.50	10.55	9.00	1.94	0.50	3.38	3.00	3.38	-----	-----	2048
6.71	1.11	0.82	9.64	8.50	8.62	8.00	1.02	0.50	2.35	2.00	2.35	-----	30 00	1302
2.50	0.99	0.82	9.31	8.50	8.69	8.00	0.62	0.50	2.28	2.00	2.28	-----	33.00	1896
5.18	0.86	0.82	9.73	8.50	8.65	8.00	1.08	0.50	2.69	2.00	2.69	-----	30 00	1245
7.14	1.78	1.65	9.72	8.50	8.70	8.00	1.02	0.50	2.34	2.00	2.34	-----	34 25	1303
2.25	1.94	1.65	10.66	8.50	9.49	8.00	0.66	0.50	2.33	2.00	2.33	-----	36 00	1896
2.79	1.88	1.65	9.32	8.50	8.64	8.00	0.68	0.50	2.33	2.00	2.33	-----	-----	1718
5.18	1.00	0.82	8.86	7.50	8.00	7.00	0.86	0.50	1.16	1.00	1.16	-----	29 00	1561
2.00	0.89	0.82	7.90	7.50	7.12	7.00	0.78	0.50	1.07	1.00	1.07	-----	28 00	2132
2.92	0.86	0.82	8.35	7.50	7.43	7.00	0.92	0.50	1.22	1.00	1.22	-----	-----	1261
2.94	1.07	0.82	9.82	8.50	8.28	8.00	1.54	0.50	*3.43	4.00	3.43	-----	33 00	1299
3.50	0.91	0.82	8.18	7.50	7.46	7.00	0.72	0.50	1.05	1.00	1.05	-----	30 00	1785
6.34	1.70	1.65	8.86	8.00	8.08	8.00	0.78	-----	2.00	2.00	2.00	-----	33 00	1380
1.72	1.89	1.65	9.10	8.00	8.22	8.00	0.88	-----	2.35	2.00	2.35	-----	36 00	2181
4.46	1.83	1.65	9.48	8.00	8.54	8.00	0.94	-----	2.78	2.00	2.78	-----	-----	1587
5.64	1.80	1.65	9.12	8.00	8.20	8.00	0.92	-----	11.32	10.00	11.32	-----	43 25	1390
1.47	1.84	1.65	9.56	8.00	8.26	8.00	1.10	-----	5.08	5.00	5.08	-----	35 00	2144
4.07	1.85	1.65	9.77	8.00	8.27	8.00	1.00	-----	5.34	5.00	5.34	-----	39 25	1879
5.81	1.80	1.65	8.80	8.00	*7.61	8.00	1.19	-----	5.62	5.00	5.62	-----	37 25	1389
3.35	1.18	0.82	9.73	8.00	8.85	8.00	0.88	-----	3.74	2.00	3.74	-----	32 25	1880
4.78	1.07	0.82	9.56	8.00	8.68	8.00	0.88	-----	4.76	4.00	4.76	-----	35 75	1453
2.02	0.93	0.82	9.71	8.00	8.61	8.00	1.10	-----	4.58	4.00	4.58	-----	40 75	2130
4.23	0.95	0.82	9.42	8.00	8.52	8.00	0.90	-----	4.60	4.00	4.60	-----	28 25	1413
3.35	1.88	1.65	10.01	8.00	9.09	8.00	0.92	-----	2.28	2.00	2.28	-----	34 00	1795
4.45	0.90	0.82	8.66	8.00	8.12	8.00	0.54	-----	0.95	1.00	0.95	-----	28 15	1833
2.50	0.94	0.82	9.24	8.00	8.72	8.00	0.52	-----	1.15	1.00	1.15	-----	35 00	1892
5.89	1.20	0.82	9.02	8.00	8.50	8.00	0.72	-----	1.36	1.00	1.36	-----	28 00	1602
4.16	2.47	2.47	9.44	8.00	8.70	8.00	0.74	-----	3.21	3.00	3.21	-----	38 75	1388
1.17	1.85	1.65	9.68	8.00	8.62	8.00	1.06	-----	2.29	2.00	2.29	-----	32 25	2131
4.97	1.74	1.65	9.04	8.00	8.08	8.00	0.96	-----	2.12	2.00	2.12	-----	34 00	1603
4.75	1.76	1.65	9.43	8.00	8.31	8.00	1.12	-----	2.47	2.00	2.47	-----	33 75	1391
3.10	2.86	2.47	11.07	10.00	9.37	9.00	1.70	1.00	2.34	2.00	2.34	-----	36 50	2009
2.28	1.76	1.65	9.48	9.00	8.60	8.00	0.88	1.00	2.22	2.00	2.22	-----	47 00	1469
3.38	0.95	0.82	10.38	9.00	8.70	8.00	1.68	1.00	1.02	1.00	1.02	-----	36 50	1470

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1894	Bowker's Staple Phosphate, -----	A. C. McClure, Burgettstown, -----
1544	Bowker's Sure Crop Phosphate Revised, --	Geo. Chichura, Olyphant, -----
2176	Bowker's Sure Crop Phosphate Revised, --	C. S. Hunter Company, Washington, --
THE CENTRAL CHEMICAL CO., HAGERSTOWN, MD.		
1485	Gro-All Cannerns Special, -----	M. P. Close, Tioga, -----
1700	Gro-All Cannerns Special, -----	Mahlon Hamm, Lehighton, -----
1659	Gro-All Cannerns Special, -----	Lloyd Hay, Meyersdale, -----
1809	Gro-All Crown Jewel, -----	N. G. Adams, Paxinos, -----
1807	Gro-All Fish and Potash Mixture, -----	N. G. Adams, Paxinos, -----
1808	Gro-All Golden Sheaf, -----	N. G. Adams, Paxinos, -----
1287	Gro-All Golden Sheaf, -----	Francis Baker, Everett, -----
2161	Gro-All Golden Sheaf, -----	Andrew Bartholomew, Bath, -----
1623	Gro-All Golden Sheaf, -----	S. K. Chambers & Brother, Elkview, --
1303	Gro-All Grain and Grass Grower, -----	H. F. Mason, Osterburg, -----
1761	Gro-All Grain and Grass Grower, -----	Mercersburg Elevator Co., Mercersburg,
1305	Gro-All Valley Mixture, -----	H. E. Mason, Osterburg, -----
2148	Gro-All Valley Mixture, -----	Charles H. Schall, Northampton, -----
THE COE-MORTIMER CO., SUBSIDIARY OF THE AMERICAN CHEMICAL COM- PANY, NEW YORK, N. Y.		
2076	E. Frank Coe's Celebrated Special Potato Fertilizer Revised.	A. T. Brown, Nescopeck, -----
1476	E. Frank Coe's Columbian Corn and Potato Fertilizer.	R. P. Hellman, Emporium, -----
1654	E. Frank Coe's Gold Brand Excelsior Guano Revised.	Isaac Rothenherger, Limekiln, -----
1491	E. Frank Coe's New Englander Special, --	E. M. Day, Brookside, -----
1475	E. Frank Coe's Pennsylvania No. 1 Grain Special 1916.	R. P. Hellman, Emporium, -----
1984	E. Frank Coe's Pennsylvania No. 1 Grain Special 1916.	H. R. Longenecker, Rheems, -----
1923	E. Frank Coe's Pennsylvania No. 1 Grain Special 1916.	Ward & Morris, Clearville, -----
1904	E. Frank Coe's Reliable Compound, -----	J. M. Hix, Hamburg, -----
2142	E. Frank Coe's Western New Yorker, --	H. D. Minnich, Emaus, -----
1653	E. Frank Coe's Western New Yorker, -----	Isaac Rothenberger, Limekiln, -----
COLUMBIA GUANO COMPANY, ALLIED WITH F. S. ROYSTER GUANO COM- PANY, BALTIMORE, MD.		
2109	Columbia Bountiful Guano, -----	S. R. Cotton, New Wilmington, -----
THE CONSUMERS CHEMICAL CORPOR- TION, AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL COMPANY, NEW YORK, N. Y.		
2120	Little Prince Brand, -----	W. H. Mitman, Easton, -----
2121	Model Brand, -----	W. H. Mitman, Easton, -----
1690	Old Hickory Brand, -----	McConnell Brothers, Hughesville, -----
THE JAS. G. DOWNWARD CO., COATES- VILLE, PA.		
1802	Royal Phosphate, -----	Isaac Tomlinson, Huntingdon Valley, --
DUMONT FERTILIZER CO., PHILADEL- PHIA, PA.		
1844	Dumont's Corn Fertilizer 1-9-3, -----	Frank H. Kulp, Boyerstown, -----
2133	Dumont's Corn Fertilizer 1-9-3, -----	William C. Nash, Pipersville, -----
2005	Dumont's Corn Fertilizer 1-9-3, -----	Harry Wilson, Frazer, -----
2137	Dumont's One Eight One, -----	E. J. Houck, Bangor, -----
1843	Dumont's One Eight One, -----	Frank B. Kulp, Boyerstown, -----
1845	Dumont's Two Eight Two, -----	Frank B. Kulp, Boyerstown, -----

FERTILIZERS—Continued.

Moisture.	GEN. NITRO.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.37	1.07	0.82	10.65	9.00	9.23	8.00	1.42	1.00	1.23	1.00	1.23	-----	35 00	1894
6.22	1.62	0.82	9.69	9.00	8.65	8.00	1.04	1.00	2.29	2.00	2.29	-----	40 00	1544
1.62	1.01	0.82	10.46	9.00	9.24	8.00	1.22	1.00	2.05	2.00	2.05	-----	35 00	2176
2.52	1.56	1.65	9.90	-----	9.56	8.00	0.34	-----	*4.48	5.00	2.00	2.48	50 00	1485
3.80	1.60	1.64	9.49	8.50	8.71	8.00	0.78	0.50	5.21	5.00	5.21	-----	34 65	1700
4.25	1.64	1.64	9.18	8.50	8.26	8.00	0.92	0.50	5.00	5.00	5.00	-----	35 53	1659
3.09	1.03	0.82	10.04	9.50	9.34	9.00	0.70	0.50	3.24	3.00	3.24	-----	34 00	1809
5.14	1.05	1.03	11.25	9.50	10.63	9.00	0.62	0.50	1.02	1.00	1.02	-----	32 00	1807
1.94	0.80	0.82	9.22	8.50	8.70	8.00	0.52	0.50	1.02	1.00	1.02	-----	30 00	1808
3.53	0.86	0.82	8.62	8.50	7.98	8.00	0.64	0.50	1.15	1.00	1.15	-----	30 00	1287
1.60	1.01	0.82	9.85	8.50	8.93	8.00	0.92	0.50	1.15	1.00	1.15	-----	27 00	2161
4.40	1.01	0.82	9.13	8.50	8.75	8.00	0.38	0.50	1.11	1.00	1.11	-----	33 00	1623
5.65	1.80	1.65	14.10	12.50	12.58	12.00	1.52	0.50	2.10	2.00	2.10	-----	35 70	1306
7.92	1.95	1.65	12.63	12.50	*11.55	12.00	1.08	0.50	2.47	2.00	2.47	-----	36 00	1761
6.33	1.71	1.65	9.04	8.50	8.30	8.00	0.74	0.50	2.20	2.00	2.20	-----	33 40	1905
1.45	1.80	1.65	9.48	8.50	8.40	8.00	1.08	0.50	2.33	2.00	2.33	-----	23 75	2148
1.77	3.67	3.29	9.84	9.00	8.50	8.00	1.34	1.00	4.41	4.00	4.41	-----	39 25	2076
8.82	1.58	1.65	9.20	9.00	8.48	8.00	0.72	1.00	2.97	3.00	2.97	-----	43 00	1476
4.94	2.45	2.47	9.34	9.00	8.46	8.00	0.88	1.00	4.23	4.00	4.23	-----	39 75	1654
4.59	0.87	0.82	9.64	9.00	8.82	8.00	1.32	1.00	2.07	2.00	2.07	-----	31 75	1491
6.18	1.19	0.82	10.52	11.00	*9.46	10 00	1.06	1.00	1.49	1.00	1.49	-----	35 00	1475
2.50	0.99	0.82	11.78	11.00	10.48	10.00	1.30	1.00	1.21	1.00	1.21	-----	30 00	1984
3.62	1.03	0.82	12.37	11.00	11.15	10.00	1.22	1.00	1.01	1.00	1.01	-----	33 00	1923
6.52	1.80	1.65	13.43	13.00	*11.77	12.00	1.66	1.00	2.16	2.00	2.16	-----	-----	1964
2.00	1.03	0.82	9.96	9.00	8.82	8.00	1.14	1.00	4.48	4.00	4.48	-----	31 75	2142
4.25	1.60	0.82	9.26	9.00	8.30	8.00	0.90	1.00	4.38	4.00	4.38	-----	32 00	1653
2.22	1.80	1.65	13.80	12.50	12.88	12.00	0.92	0.50	2.32	2.00	2.32	-----	37 00	2109
2.85	1.19	0.82	11.24	10.00	9.98	9.00	1.26	1.00	3.47	3.00	3.47	-----	30 90	2120
2.92	1.10	0.82	9.96	9.00	8.92	8.00	1.04	1.00	2.28	2.00	2.28	-----	28 90	2121
3.63	1.90	1.65	9.76	9.00	8.90	8.00	0.86	1.00	3.35	3.00	3.00	0.35	37 00	1690
2.74	0.83	0.82 1.00	9.38	11-12	*8.82	10-11	0.56	1-2	1.36	1-2	0.50	0.86	33 00	1802
3.62	1.00	0.82	11.61	-----	10.25	9.00	1.36	-----	3.31	3.00	3.31	-----	32 75	1844
1.97	1.20	0.82	11.86	-----	10.46	9.00	1.40	-----	3.34	3.00	3.34	-----	33 50	2122
2.45	1.05	0.82	11.58	-----	10.24	9 00	1.34	-----	3.29	3.00	3.29	-----	31 00	2005
1.85	1.08	0.82	10.31	-----	9.21	8.00	1.10	-----	1.10	1.00	1.10	-----	28 50	2137
4.61	1.10	0.82	10.01	-----	8.99	8.00	1.02	-----	1.45	1.00	1.45	-----	-----	1843
6.22	1.70	1.65	9.89	-----	9.01	8.00	0.88	-----	2.34	2.00	2.34	-----	34 50	1845

*Deficient.

TABLE II.—COMPLETE

Chemist's number.

Name of Manufacturer and Brand.

Sample Taken From—

1560	EASTERN GUANO CO., NEW YORK N. Y. Eastern Anchor Brand, -----	Walker, Dicht & Walker, Richmond Fur- nace.
	EUREKA CHEMICAL CO., BALTIMORE MD.	
1557	Eureka Fish and Potash, -----	W. H. Nesbit, McConnellsburg, -----
2186	Eureka Fish and Potash No. 1, -----	C. C. Davis, Greensboro, -----
1917	Eureka Fish and Potash No. 1, -----	W. H. Nesbit, McConnellsburg, -----
1512	Eureka Grain and Grass, -----	J. M. Frick, Wellsville, -----
	THE FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA.	
1985	Pride of Donegal, -----	Mary A. Boyle, Elizabethtown, -----
1332	Pride of Donegal, -----	Farmers Co-Operative Association Lewis- town.
1868	Pride of Donegal, -----	J. H. Heterick, Palmyra, -----
1867	Special Compound, -----	J. H. Heterick, Palmyra, -----
	GRIFFITH & BOYD CO., BALTIMORE, MD.	
2203	Griffith & Boyd Co's Cereal Plant Food, -----	Farmers Co-Operative Union, Granville Summit.
1811	Griffith & Boyd Co's Economizer, -----	E. A. Slagle, Paxinos, -----
1640	Griffith & Boyd Co's Farmers Queen, -----	John Clay, Palmyra, -----
2000	Griffith & Boyd Co's Fish and Potash Guano, -----	E. E. Bailey, Northbrook, -----
2204	Griffith & Boyd Co's Fish and Potash Guano, -----	Farmers Co-Operative Union, Granville Summit.
1822	Griffith & Boyd Co's Fish and Potash Guano, -----	E. L. White, Danville, -----
1410	Griffith & Boyd Co's Fish, Blood and Potash, -----	Morris C. Bohn, Bernville, -----
1347	Griffith & Boyd Co's Fish, Blood and Potash, -----	Hartley & Blaine, Turbotville, -----
1607	Griffith and Boyd Co's Fish, Blood and Potash, -----	Garfield Milhous, Mendenhall, -----
1414	Griffith & Boyd Co's General Crop Grower, -----	Morris C. Bohn, Bernville, -----
2023	Griffith & Boyd Co's General Crop Grower, -----	W. E. Wells, Parker Ford, -----
1606	Griffith & Boyd Co's Peerless Fertilizer, --	Garfield Milhous, Mendenhall, -----
1419	Griffith & Boyd Co's Peerless Fertilizer, --	Frank Reinert, Kutztown, -----
2205	Griffith & Boyd Co's Royal Potash Guano, -----	Farmers Co-Operative Union, Granville, Summit.
1348	Griffith & Bayd Co's Royal Potash Guano, -----	Hartley & Blaine, Turbotville, -----
1418	Griffith & Bayd Co's Royal Potash Guano, -----	Frank Reinert, Kutztown, -----
1717	Griffith & Boyd Co's Royal Potash Guano, -----	John A. Wert, Rock, -----
1413	Griffith & Boyd Co's Special Formula, --	Morris C. Bohn, Bernville, -----
1349	Griffith & Boyd Co's Special Formula, --	Hartley & Blaine, Turbotville, -----
1639	Griffith & Boyd Co's Special Guano, -----	John Clay, Palmyra, -----
1635	Griffith & Boyd Co's Special Peerless Guano, -----	Bright & Schwoyer, Kempton, -----
1412	Griffith & Boyd Co's Standard Guano, -----	Morris C. Bohn, Bernville, -----
2041	Griffith & Boyd Co's Valley Fertilizer, --	Jones Eavenson, Christiana, -----
	S. M. HESS & BROTHER, INC., SUB- SIDIARY OF THE AMERICAN CHEMI- CAL COMPANY, NEW YORK, N. Y.	
2079	Farmers General Fertilizer, -----	C. L. Tressler, Conyngham, -----
1408	Keystone Phosphate, -----	H. D. Wiest, Bernville, -----
1577	Special Compound, -----	John Reabuek, Klingerstown, -----
1592	Special Compound, -----	John H. Shenk, Linglestown, -----
2160	Special Compound, -----	Eugene Stahley, Danielsville, -----
	P. HOFFMAN & BROTHER, RAUBS- VILLE, PA.	
2128	Hoffmans Special Fertilizer, -----	P. Hoffman & Brother, Raubsville, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
5.04	0.85	0.82	9.44	8.50	8.82	8.00	0.62	0.50	1.01	1.00	1.01	-----	25 50	1560
3.30	0.58	-----	9.54	-----	8.84	8.00	0.70	0.50	2.06	2.00	2.06	-----	28 00	1557
2.55	0.63	-----	9.12	-----	8.38	8.00	0.74	-----	1.09	1.00	1.09	-----	35 00	2186
2.80	0.67	-----	9.06	-----	8.32	8.00	0.74	0.50	*0.76	1.00	0.76	-----	-----	1917
0.56	0.74	-----	9.74	-----	8.98	8.00	0.76	0.50	2.10	2.00	2.10	-----	-----	1512
5.52	1.95	1.65	8.87	8.00	8.09	7.00	0.78	1.00	3.50	3.00	3.50	-----	-----	1985
9.56	1.74	1.65	8.90	8.00	7.78	7.00	1.12	1.00	3.79	3.00	3.79	-----	27 54	1332
4.46	1.59	1.65	9.30	8.00	8.60	7.00	0.70	1.00	3.64	3.00	3.64	-----	30 00	1868
4.50	0.97	0.82	10.27	9.00	9.51	8.00	0.76	1.00	2.34	2.00	2.34	-----	27 50	1867
1.45	1.04	0.82	9.08	9.00	7.92	8.00	1.16	1.00	2.36	2.00	2.36	-----	33 00	2203
2.92	0.60	0.41	7.40	7.00	6.40	6.00	1.00	1.00	1.73	1.00	1.73	-----	24 00	1811
4.38	1.06	0.82	10.65	10.00	9.51	9.00	1.14	1.00	3.45	3.00	3.45	-----	31 25	1640
1.52	1.60	1.44	8.96	8.00	7.72	7.00	1.24	1.00	3.60	3.00	3.60	-----	34 00	2000
1.50	1.53	1.44	10.22	8.00	8.70	7.00	1.52	1.00	3.07	3.00	3.07	-----	36 00	2204
2.02	1.39	1.44	9.10	8.00	7.82	7.00	1.28	1.00	3.15	3.00	3.15	-----	34 00	1822
4.06	1.56	1.44	9.67	8.00	8.09	7.00	1.58	1.00	2.23	2.00	2.23	-----	30 50	1410
7.29	1.45	1.44	9.62	8.00	7.53	7.00	1.44	1.00	2.01	2.00	2.01	-----	31 35	1347
4.42	1.63	-----	8.44	-----	7.36	7.00	1.08	-----	2.11	2.00	2.11	-----	34 00	1607
6.16	*1.01	1.65	8.92	9.00	8.16	8.00	0.76	1.00	*1.18	2.00	1.18	-----	35 00	1414
2.27	1.72	1.65	9.80	9.00	8.08	8.00	1.72	1.00	2.46	2.00	2.46	-----	33 50	2023
3.71	0.58	0.41	8.98	9.00	8.44	8.00	0.54	1.00	2.29	2.00	2.29	-----	32 00	1606
3.86	0.65	0.41	9.80	9.00	8.10	8.00	1.70	1.00	2.37	2.00	2.37	-----	27 00	1419
6.72	0.96	0.82	10.75	9.00	9.01	8.00	1.74	1.00	4.12	4.00	4.12	-----	35 00	2205
7.77	0.88	0.82	10.91	9.00	9.01	8.00	1.90	1.00	4.69	4.00	4.69	-----	31 93	1348
6.47	1.00	0.82	9.53	9.00	8.63	8.00	0.90	1.00	4.51	4.00	4.51	-----	31 00	1413
5.18	1.00	0.82	10.67	9.00	9.19	8.00	1.48	1.00	4.48	4.00	4.48	-----	35 50	1717
5.74	1.69	1.65	11.56	11.00	10.50	10.00	1.06	1.00	*3.52	4.00	3.52	-----	38 25	1413
9.70	1.62	1.65	11.36	11.00	10.34	10.00	1.02	1.00	3.88	4.00	3.88	-----	36 53	1349
5.09	1.66	1.65	10.41	9.00	9.29	8.00	1.12	1.00	5.17	5.00	5.17	-----	26 00	1639
4.17	0.61	0.41	10.02	9.00	8.32	8.00	1.70	1.00	1.26	1.00	1.26	-----	25 00	1635
10.50	1.69	1.65	13.32	13.00	12.48	12.00	0.84	1.00	2.06	2.00	2.05	-----	28 50	1412
1.85	0.81	0.62	8.49	9.00	8.19	8.00	0.30	1.00	3.03	3.00	3.03	-----	30 00	2041
2.52	1.11	0.82	11.84	11.00	10.70	10.00	1.14	1.00	1.29	1.00	1.29	-----	29 00	2079
4.21	0.89	0.82	9.25	9.00	7.82	8.00	1.43	1.00	1.00	1.00	1.00	-----	-----	1408
2.42	1.00	0.82	10.14	9.00	8.54	8.00	1.60	1.00	4.28	4.00	4.28	-----	33 00	1577
4.66	0.90	0.82	9.57	9.00	8.17	8.00	1.40	1.00	4.25	4.00	4.25	-----	32 00	1392
2.47	1.20	0.82	9.33	9.00	8.48	8.00	0.90	1.00	4.41	4.00	4.41	-----	33 75	2160
1.70	1.25	0.82	14.25	10.00	10.77	8.00	3.48	2.00	4.11	3.00	4.11	-----	28 00	2128

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.	
1398	Hubbard's Climax Phosphate, -----	J. R. Meck, Meckville, -----
1397	Hubbard's Farmers I. X. L., -----	J. R. Meck, Meckville, -----
1396	Hubbard's Fish Mixture, -----	J. R. Meck, Meckville, -----
1559	Hubbard's Fish Mixture, -----	Walker, Dicht & Walker, Richmond Furnace, -----
2658	Hubbard's Money Maker Fertilizer, -----	Harry Hartman, Orwigsburg, -----
2656	Hubbard's 1-8-3 Fertilizer, -----	Geo Seltzer, Orwigsburg, -----
1570	Hubbard's 1-8-3 Fertilizer, -----	Shippensburg Warehouse Co., Shippensburg, -----
	INTERNATIONAL AGRICULTURAL CORPORATION, BUFFALO FERTILIZER WORKS, BUFFALO, N.Y.	
1488	Buffalo Farmers Choice, -----	C. E. Rauscher, Blossburg, -----
1489	I. A. O. Complete, -----	C. E. Rauscher, Blossburg, -----
	THE JARECKI CHEMICAL COMPANY, SANDUSKY, OHIO.	
2698	Little Giant, -----	W. H. Stevenson & Son, Volant, -----
2697	No. One Formula, -----	W. H. Stevenson & Son, Volant, -----
	T. S. KENDERDINE & SON, NEWTOWN PA.	
2153	Kenderdines B. Phosphate, -----	T. S. Kenderdine & Son, Newtown, -----
	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA.	
1815	Keystone Excelsior Wheat Grower, -----	E. A. Slagle, Paxinos, -----
1814	Keystone Grain & Grass Manure, -----	E. A. Slagle, Paxinos, -----
1631	Keystone Royal Corn and Potato Manure Revised, -----	Albright & Schwoyer, Kempton, -----
2077	Keystone Royal Corn and Potato Manure Revised, -----	P. K. Smith, Nescopeck, -----
	THE KEYSTONE GRANGE EXCHANGE, MANSFIELD, PA.	
1972	Granger's Leader, -----	M. G. Gingrich, Lebanon, -----
1733	Granger's Leader, -----	Pocono Grange, Tannersville, -----
1730	Granger's Prize, -----	Pocono Grange, Tannersville, -----
	LANCASTER BONE FERTILIZER COMPANY, LANCASTER, PA.	
1765	Harvest King, -----	G. F. Fendrich, Mercersburg, -----
1764	Lancaster Favorite, -----	G. F. Fendrich, Mercersburg, -----
1259	Lancaster Favorite, -----	W. E. Ulrich, Myerstown, -----
2158	Lancaster Scientific Compound, -----	M. A. Herber, Breinigsville, -----
2019	Lancaster Scientific Compound, -----	Henry Zook, Elverson, -----
2032	Potato Tobacco and Truck Manure, -----	E. B. Fritz & Son, Quarryville, -----
1763	Tobacco and Potato Compound, -----	G. F. Fendrich, Mercersburg, -----
2159	Tobacco and Potato Compound, -----	M. A. Herber, Breinigsville, -----
1260	Tobacco and Potato Compound, -----	W. E. Ulrich, Myerstown, -----
2020	Tobacco and Potato Compound, -----	Henry Zook, Elverson, -----
1258	Truckers Success, -----	W. E. Ulrich, Myerstown, -----
	LEBANON FERTILIZER WORKS, LEBANON, PA.	
1903	Levan's Farmers' Favorite 1-8-2, -----	Moses K. Horst, Scotland, -----
1981	Levan's Farmers' Favorite 1-8-2, -----	Isaac B. Minich, Manheim, -----
1407	Levan's Farmers' Favorite 1-8-2, -----	C. J. Potteiger, Bernville, -----
1857	Levan's Farmers' Standard 2-12-2, -----	J. M. Groh, Lickdale, -----
1901	Levan's Farmers' Standard 2-12-2, -----	Moses K. Horst, Scotland, -----
1838	Levan's Farmers' Standard 2-12-2, -----	I. G. Washburn, Millville, -----
1963	Levan's Golden Sheaf, -----	A. F. Bayer Est., Hamburg, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
5.28	1.05	0.82	9.69	8.00	8.81	7.90	0.88	1.00	4.24	4.00	4.24	-----	34 00	1398
6.18	1.56	1.64	9.63	9.00	8.87	8.00	0.76	1.00	2.39	2.00	2.39	-----	35 00	1397
4.68	1.00	0.82	10.42	9.00	9.28	8.00	1.14	1.00	1.34	1.00	1.34	-----	30 00	1396
4.02	1.05	0.82	10.03	9.00	9.27	8.00	0.76	1.00	1.41	1.00	1.41	-----	25 50	1559
2.15	1.72	1.64	10.60	9.00	9.50	8.00	1.10	1.00	5.30	5.00	5.30	-----	33 00	2058
1.80	1.04	0.82	9.72	9.00	8.64	8.00	1.08	1.00	3.25	3.00	3.35	-----	28 25	2056
4.40	0.80	0.82	10.40	9.00	8.90	8.00	1.50	1.00	3.00	3.00	3.00	-----	28 75	1570
3.58	0.90	0.80	12.06	11.00	10.42	10.00	1.64	1.00	1.86	2.00	1.50	0.36	35 00	1488
4.73	1.60	1.60	10.24	9.00	8.56	8.00	1.68	1.00	2.12	2.00	1.70	0.42	38 00	1489
2.25	1.08	0.82	11.28	11.00	10.46	10.00	0.82	1.00	1.30	1.00	1.30	-----	30 00	2098
2.27	0.95	0.82	11.75	11.00	11.03	10.00	0.72	1.00	*1.10	2.00	1.10	-----	32 50	2097
1 55	2.71	2.47	10.73	10.00	9.61	8.00	1.12	2.00	3.25	3.00	3.35	-----	39 00	2153
4.41	1.09	0.82	10.06	9.00	8.70	8.00	1.36	1.00	4.66	4.00	4.66	-----	34 00	1815
4.80	1.15	0.82	9.76	8.00	8.28	7.00	1.48	1.00	1.22	1.00	1.22	-----	28 00	1814
5.05	1.67	1.64	10.54	9.00	9.20	8.00	1.34	1.00	3.84	4.00	3.84	-----	33 75	1631
2.70	1.98	1.64	11.16	9.00	8.82	8.00	2.34	1.00	4.29	4.00	4.29	-----	36 00	2077
1.27	1.76	1.65	10.06	8.50	8.92	8.00	1.14	0.50	2.12	2.00	2.12	-----	-----	1972
4.10	1.73	1.65	9.28	8.50	8.36	8.00	0.92	0.50	2.09	2.00	2.09	-----	28 00	1733
4.37	1.69	1.65	9.02	8.50	8.50	8.00	0.52	0.50	4.88	5.00	4.88	-----	38 00	1730
6.91	0.12	Trace	10.64	11.00	10.26	10.00	0.38	1.00	4.33	4.00	4.33	-----	25 00	1765
4.02	0.88	0.82	9.15	9.00	8.67	8.00	0.48	1.00	1.15	1.00	1.15	-----	25 00	1764
2.00	1.06	0.82	8.23	9.00	7.89	8.00	0.34	1.00	1.40	1.00	-----	1.40	31 00	1259
2.60	1.76	1.60	10.15	9.00	9.47	8.00	0.68	1.00	4.04	4.00	1.60	2.44	36 00	2158
2.17	1.70	1.60	9.67	9.00	8.51	8.00	1.16	1.00	4.48	4.00	4.48	-----	-----	2019
1.97	1.73	1.60	8.91	9.00	8.47	8.00	0.44	1.00	1.10	1.00	0.30	0.80	27 00	2032
5.15	1.00	0.82	9.31	10.00	*8.77	9.00	0.54	1.00	3.60	3.00	3.60	-----	31 00	1763
2.75	1.23	0.82	9.96	10.00	9.44	9.00	0.52	1.00	3.34	3.00	3.34	-----	31 50	2154
2.04	0.91	0.82	9.75	10.00	9.39	9.00	0.36	1.00	3.43	3.00	-----	3.43	34 00	1260
1.65	0.88	1.60	10.27	-----	*9.59	13.00	0.68	-----	3.20	3.4	20	-----	2020	-----
5.75	1.74	1.60	12.82	13.00	12.34	12.00	0.48	1.00	2.09	2.00	-----	2.09	38 00	1258
4.87	0.98	0.82	8.93	9.00	8.53	8.00	0.40	1.00	2.76	2.00	2.76	-----	26 60	1903
3.20	0.83	0.82	8.92	9.00	8.44	8.00	0.48	1.00	2.68	2.00	2.68	-----	25 75	1981
4.92	0.83	0.82	9.38	9.00	8.80	8.00	0.58	1.00	2.44	2.00	2.44	-----	27 00	1407
5.34	1.84	1.65	13.32	13.00	12.94	12.00	0.38	1.00	2.62	2.00	2.62	-----	36 00	1857
7.09	1.50	1.65	13.80	13.00	13.06	12.00	0.74	1.00	2.40	2.00	2.40	-----	32 70	1901
8.30	1.75	1.65	13.26	13.00	12.94	12.00	0.32	1.00	2.41	2.00	2.41	-----	-----	1838
2.62	1.00	0.82	9.17	9.00	8.67	8.00	0.50	1.00	1.09	1.00	1.09	-----	28 00	1963

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1582	Levan's Lebanon Special, -----	I. E. Artz, Hegins, -----
1637	Levan's Lebanon Special, -----	A. D. Trexler Sons, Trexler, -----
1580	Levan's Special Tobacco Compound, -----	I. E. Artz, Hegins, -----
1405	Levan's Special Tobacco Compound, -----	Charles J. Potteliger, Bernville, -----
1579	Levan's Special Tobacco Compound, -----	Samuel Savidge, Valley View, -----
	FRED E. LORD, ESPY, PA.	
2172	Columbia County Spring Special, -----	Fred, E. Lord, Espy, -----
	THE MAPES FORMULA & PERUVIAN	
	GUANO CO., NEW YORK, N. Y.	
1792	The Mapes Grain Brand, -----	John W. Root, Kimberton, -----
	THE MARTIN FERTILIZER CO.,	
	PHILADELPHIA, PA.	
1370	Bull Head Brand Corn and Cereal Special, -----	Harvey G. Shortlidge, Kelton, -----
2065	Bull Head Brand Dissolved Organic Com- pound, -----	John Reed, Cressona, -----
2049	Bull Head Brand Special Compound, -----	Keystone Tractor & Implement Co., Palmira, -----
2066	Bull Head Brand Special Compound, -----	Milton Spancake, Pine Grove, -----
2050	Bull Head Brand Sure Grower, -----	Keystone Tractor & Implement Co., Palmira, -----
	MILLER FERTILIZER COMPANY,	
	BALTIMORE, MD.	
1383	Ammoniated, -----	Miller T. Harkins, Hickory Hill, -----
2072	Ammoniated, -----	C. M. Harter, Wapwallopen, -----
1687	Ammoniated, -----	Herman Keebler, Montoursville, -----
2087	Club Brand No. 2, -----	G. P. Atwell, Grove City, -----
1598	Harvest Queen, -----	Miller T. Harkins, Hickory Hill, -----
2071	Harvest Queen, -----	C. M. Harter, Wapwallopen, -----
1633	Hustler Phosphate, -----	Albright & Schwoyer, Kempton, -----
2089	Hustler Phosphate, -----	G. P. Atwell, Grove City, -----
2069	Hustler Phosphate, -----	C. M. Harter, Wapwallopen, -----
1732	Miller's Clermont, -----	Franklin Miller & Son, Greencastle, -----
1334	Miller's Grass and Grain, -----	Miller T. Harkins, Hickory Hill, -----
1937	Miller's Harvest Queen, -----	W. H. Muth & Co., Lititz, -----
2070	Miller's Unexcelled, -----	C. M. Harter, Wapwallopen, -----
1790	Miller's Unexcelled, -----	A. K. Kulp, Pottstown, -----
1385	Standard Phosphate, -----	Miller T. Harkins, Hickory Hill, -----
	NITRATE AGENCIES COMPANY,	
	NEW YORK, N. Y.	
1692	Pennsylvania Federated Farmers Associa- tion 2-12-2, -----	Clinton County Co-operative Association, Lock Haven, -----
	G. OBER & SONS COMPANY,	
	BALTIMORE, MD.	
2140	Ober's Farmers Mixture, -----	B. C. Frable, Pleasant Valley, -----
1609	Ober's Farmers Mixture, -----	N. B. Shober, Garret, -----
2145	Ober's Golden Top Wheat and Corn Grower, -----	A. L. Bergstresser, Hellertown, -----
1681	Ober's Independent Mixture, -----	G. H. DeFrain, Collomsville, -----
1671	Ober's Independent Mixture, -----	N. B. Shober, Garret, -----
2016	Ober's Independent Mixture, -----	D. E. Wagenseller, Supplee, -----
1743	Ober's Red Seal Corn and Wheat Guano, -----	J. S. Stevenson, Waynesboro, -----
1680	Ober's Soluble Ammoniated Super Phos- phate of Lime, -----	G. H. DeFrain, Collomsville, -----
1566	Ober's Soluble Ammoniated Super Phos- phate of Lime, -----	Wm. A. Nickles, Shippensburg, -----
1668	Ober's Soluble Ammoniated Super Phos- phate of Lime, -----	N. B. Shober, Garret, -----
1698	Ober's Special Plant Food, -----	Victor Solt, Lehighton, -----
1670	Ober's Stag Guano, -----	N. B. Shober, Garret, -----
2015	Ober's Stag Guano, -----	D. E. Wogenseller, Supplee, -----
2139	Ober's Swan-E Fish Guano, -----	R. C. Frable, Pleasant Valley, -----

FERTILIZERS—Continued.

Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
4.26	1.79	1.65	8.97	9.00	8.31	8.00	0.66	1.00	2.64	2.00	2.64	-----	29 50	1582
3.96	*0.84	1.65	9.34	9.00	8.72	8.00	0.62	1.00	2.62	2.00	2.62	-----	-----	1637
5.43	1.57	1.65	11.88	11.00	11.22	10.00	0.66	1.00	*3.65	4.00	3.65	-----	-----	1581
7.80	1.69	1.65	11.33	11.00	10.75	10.00	0.58	1.00	4.28	4.00	4.28	-----	36 50	1405
4.61	1.68	1.65	11.24	11.00	10.30	10.00	0.94	1.00	5.16	4.00	5.16	-----	-----	1579
2.32	1.86	1.64	14.30	10.25	12.06	10.00	2.24	0.25	2.52	2.00	2.52	-----	28 00	2172
4.00	1.69	1.65	10.55	10.00	8.19	8.00	2.36	2.00	2.42	2.00	2.42	-----	35 00	1792
7.12	1.66	1.65	11.10	9.00	*7.75	8.00	3.35	1.00	3.45	2.00	3.45	-----	34 00	1376
2.90	0.89	0.82	11.58	9.00	8.86	8.00	2.72	1.00	4.50	4.00	4.50	-----	-----	2065
3.40	1.83	1.65	12.58	9.00	9.16	8.00	3.42	1.00	5.41	5.00	5.41	-----	-----	2049
2.17	2.00	1.65	13.29	9.00	9.73	8.00	3.56	1.00	5.46	5.00	5.46	-----	35 00	2066
3.65	0.88	0.83	11.71	9.00	8.61	8.00	3.10	1.00	1.05	1.00	1.05	-----	-----	2050
4.98	1.80	-----	9.70	-----	8.12	8.00	1.78	0.50	2.19	2.00	2.19	-----	35 00	1383
1.77	1.80	-----	9.72	-----	8.64	8.00	1.14	0.50	2.04	2.00	2.04	-----	33 00	2072
4.22	1.59	-----	9.82	-----	8.80	8.00	1.02	0.50	1.98	2.00	1.98	-----	35 00	1687
1.50	0.50	-----	8.27	-----	*7.59	8.00	0.68	0.50	0.54	0.50	0.54	-----	30 00	218
3.62	1.05	-----	10.26	-----	9.32	9.00	0.94	0.50	3.16	3.00	3.16	-----	33 00	1598
2.32	0.95	0.82	10.90	9.50	9.66	9.00	1.24	0.50	3.22	3.00	3.22	-----	28 00	2071
4.50	0.98	-----	9.69	-----	8.89	8.00	0.80	0.50	1.90	1.00	1.90	-----	26 75	1633
2.32	0.90	-----	9.37	-----	8.61	8.00	0.76	0.50	1.07	1.00	1.07	-----	32 00	2082
2.22	0.95	0.82	9.30	8.50	8.38	8.00	1.02	0.50	1.21	1.00	1.21	-----	28 00	2060
3.81	1.00	-----	11.42	-----	10.56	10.00	0.86	0.50	2.12	2.00	2.12	-----	31 00	1752
5.35	1.76	-----	10.12	-----	*8.54	9.00	1.58	-----	3.09	3.00	3.09	-----	25 00	1384
3.70	0.89	0.82	10.63	9.50	9.81	9.00	0.82	0.50	3.36	3.00	3.36	-----	31 00	1967
1.67	1.72	1.65	12.26	10.50	10.44	10.00	1.82	0.50	2.26	2.00	2.26	-----	35 00	2070
3.37	1.74	-----	11.39	-----	10.09	10.00	1.50	0.50	2.51	2.00	2.51	-----	35 50	1790
6.70	2.46	-----	9.12	-----	7.81	8.00	1.31	0.50	3.00	3.00	3.00	-----	39 00	1386
5.10	1.89	1.64	13.62	13.00	12.98	12.00	0.64	1.00	2.26	2.00	1.90	0.36	33 80	1692
3.25	1.08	0.82	11.30	10.00	10.60	9.00	0.70	1.00	2.39	2.00	2.39	-----	33 00	2140
6.97	1.04	0.82	10.71	10.00	10.21	9.00	0.50	1.00	2.47	2.00	2.47	-----	31 61	1609
2.95	1.03	0.82	11.21	10.00	10.13	9.00	1.08	1.00	3.20	3.00	3.20	-----	32 00	2145
5.71	1.03	0.82	10.04	9.00	9.22	8.00	0.72	1.00	1.75	1.00	1.75	-----	28 50	1681
6.02	1.01	0.82	10.36	9.00	9.84	8.00	0.52	1.00	1.03	1.00	1.03	-----	29 61	1671
3.10	0.82	0.82	9.61	9.00	8.81	8.00	0.86	1.00	1.47	1.00	1.47	-----	37 00	2016
10.20	1.74	1.65	12.40	13.00	12.14	12.00	0.26	1.00	2.45	2.00	2.45	-----	37 00	1743
5.32	1.73	1.65	10.92	9.00	9.32	8.00	1.60	1.00	2.02	2.00	2.02	-----	33 50	1680
6.40	2.15	1.65	10.21	9.00	9.07	8.00	1.14	1.00	1.97	2.00	1.97	-----	30 15	1566
4.70	1.71	1.65	10.59	9.00	9.41	8.00	1.18	1.60	2.17	2.00	2.17	-----	34 61	1608
4.42	1.75	1.66	11.24	10.00	9.72	9.00	1.52	1.00	5.07	5.00	2.60	2.47	-----	1698
7.39	1.28	0.82	10.65	10.00	10.17	9.00	0.48	1.00	4.31	4.00	4.31	-----	34 11	1670
2.42	1.04	0.82	10.78	10.00	9.54	9.00	1.24	1.60	4.57	4.00	4.57	-----	-----	2015
4.40	1.96	1.65	10.31	10.00	9.93	9.00	0.38	1.00	3.33	3.00	3.33	-----	36 00	2139

*Deficient.

TABLE II.—COMPLETE

Chemist's number.

Name of Manufacturer and Brand.

Sample Taken From—

PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BALTIMORE, MD.	
1891	Coon Brand Guano, -----
1309	Coon Brand Guano, -----
1747	Coon Brand Guano, -----
1881	Patapseo B. B. & P. Brand Revised, -----
1643	Patapseo Big Chief Brand with Potash, -----
2096	Patapseo Big Chief Brand with Potash, -----
2175	Patapseo General Crop Producer, -----
1873	Patapseo Golden Sheaves, -----
1496	Patapseo Grain and Grass Producer, -----
1642	Patapseo Guano, -----
PATUXENT GUANO COMPANY, BALTIMORE, MD.	
1950	Beaver Brand Guano, -----
1340	Patuxent Grain and Clover Producer, -----
1952	Patuxent Grain and Clover Producer, -----
1951	Tom O'Neill's Golden Harvest, -----
PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD.	
1567	Piedmont Ammoniated Fertilizer, -----
1594	Piedmont Excelsior, -----
1303	Piedmont Farmers Favorite, -----
1755	Piedmont Farmers Favorite, -----
1974	Piedmont Harvest Queen, -----
1400	Piedmont Harvest Queen, -----
1568	Piedmont Harvest Queen, -----
1975	Piedmont Insula Fish Guano, -----
1812	Piedmont Insula Fish Guano, -----
1699	Piedmont Perfection Guano, -----
1335	Piedmont Standard, -----
RAMSBURG FERTILIZER CO., FREDERICK, MD.	
1751	Ramsburg Ammoniated Phosphate, -----
RASIN-MONUMENTAL COMPANY, SUBSIDIARY OF THE VIRGINIA-CAROLINA CHEMICAL CO., BALTIMORE, MD.	
1457	Rasin's Best Grain & Grass Formula, -----
1274	Rasin's Empire Guano, -----
2202	Rasin's Empire Guano, -----
1648	Rasin's Royal Fish and Potash Mixture, -----
1366	Rasin's Royal Fish and Potash Mixture, -----
2166	Rasin's Royal Fish and Potash Mixture, -----
1273	Rasin's Royal Manure, -----
1636	Rasin's United Grain Grower, -----
1365	Rasin's United Grain Grower, -----
1486	Rasin's Vegetable Special, -----
1604	William Penn Crop Grower, -----
READING BONE FERTILIZER CO., READING, PA.	
1859	Blood, Meat and Potash Mixture, -----
2011	Blood, Meat and Potash Mixture, -----
2010	Farmers Tankage and Potash for Corn, -----
	Grain and Grass. -----
2134	Farmers Tankage and Potash for Corn, -----
	Grain and Grass. -----
Denny & Allison, Hickory, -----	
Fred D. Mick, Cresco, -----	
E. C. Thomas, Gettysburg, -----	
Joseph Lehman, Holsopple, -----	
Geo. A. Speck, Lickdale, -----	
M. W. Young, New Castle, -----	
Russel Brothers, Washington, -----	
Barron & Miller, Friedens, -----	
S. A. Fishburn, Penbrook, -----	
Geo. A. Speck, Lickdale, -----	
Morris N. Mohler, Denver, -----	
H. J. Lindner, Potts Grove, -----	
Morris N. Mohler, Denver, -----	
Morris N. Mohler, Denver, -----	
Wm. A. Nickles, Shippensburg, -----	
Jacob R. Meck, Meckville, -----	
Jacob R. Meck, Meckville, -----	
Onwake Brothers, Greencastle, -----	
Keystone Tractor & Implement Co., Palmyra, -----	
Jacob R. Meck, Meckville, -----	
Wm. A. Nickles, Shippensburg, -----	
Keystone Tractor & Implement Co., Palmyra, -----	
E. A. Slagle, Paxinos, -----	
Victor Solt, Leighton, -----	
Jacob R. Meck, Meckville, -----	
Franklin Miller & Son, Greencastle, -----	
H. M. Silknitter, Manor Hill, -----	
Geo. Dunkel, Myerstown, -----	
W. J. Vickery & Son, Columbia Cross Roads, -----	
S. H. Dunkel, Myerstown, -----	
E. H. Keen & Son, Parkesburg, -----	
H. B. Lowe & Son, Orangeville, -----	
Geo. Dunkel, Myerstown, -----	
Albright & Schwoyer, Kempton, -----	
E. H. Keen & Son, Parkesburg, -----	
Geo. M. Durif, Wellsboro, -----	
W. H. Walker & Co., Kennett Square, -----	
S. M. Kline, Lebanon, -----	
J. K. Lewis, Honeybrook, -----	
J. K. Lewis, Honeybrook, -----	
William C. Nash, Pipersville, -----	

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
1.75	1.10	0.82	11.88	10.00	10.20	9.00	1.68	1.00	2.03	2.00	2.03	-----	36 00	1891
2.22	1.09	0.82	10.70	10.00	9.50	9.00	1.26	1.00	1.16	1.00	1.16	-----	39 00	1309
4.87	0.96	0.82	10.40	10.00	8.84	9.00	1.56	1.00	2.02	2.00	2.02	-----	-----	1747
2.72	1.01	0.82	9.56	9.00	8.90	8.00	0.66	1.00	1.41	1.00	1.41	-----	30 00	1881
7.13	0.96	0.82	10.36	10.00	9.62	9.00	0.74	1.00	3.07	3.00	3.07	-----	31 00	1643
2.10	0.94	0.82	11.46	10.00	9.84	9.00	1.62	1.00	3.28	3.00	3.28	-----	23 50	2096
1.55	1.00	0.82	8.79	8.00	7.25	7.00	1.54	1.00	1.09	1.00	1.09	-----	31 50	2175
5.71	1.79	1.65	12.35	13.00	*11.29	12.00	1.06	1.00	2.03	2.00	2.03	-----	36 90	1873
4.19	0.94	0.82	9.97	9.00	8.49	8.00	1.48	1.00	4.40	4.00	4.40	-----	31 75	1496
9.60	1.52	1.65	9.15	9.00	8.57	8.00	0.58	1.00	2.04	2.00	2.04	-----	34 00	1642
2.80	1.17	0.82	11.28	10.00	10.52	9.00	0.76	1.00	3.39	3.00	3.39	-----	-----	1950
5.81	0.99	0.82	9.67	-----	8.55	8.00	1.12	-----	3.83	4.00	3.83	-----	31 08	1340
4.25	1.03	0.82	10.16	9.00	9.58	8.00	0.58	1.00	4.90	4.00	4.90	-----	-----	1952
3.92	0.91	0.82	12.91	10.00	12.23	9.00	0.68	1.00	2.26	2.00	2.26	-----	-----	1951
5.23	1.10	0.82	10.71	-----	10.25	9.00	0.46	-----	2.96	3.00	2.96	-----	28 75	1567
5.00	0.90	0.82	9.92	8.00	9.36	8.00	0.56	-----	1.62	1.00	1.62	-----	30 00	1394
6.64	0.95	0.82	9.99	8.00	9.37	8.00	0.62	-----	*3.65	4.00	3.65	-----	35 00	1393
5.60	0.90	0.82	9.58	-----	8.98	8.00	0.60	-----	4.31	4.00	4.31	-----	31 00	1755
3.32	1.15	0.82	11.07	-----	10.23	8.00	0.84	-----	2.64	2.00	2.64	-----	30 00	1974
5.38	0.85	0.82	9.62	-----	8.86	8.00	0.76	-----	2.15	2.00	2.15	-----	32 00	1400
5.55	0.99	0.82	10.15	-----	9.53	8.00	0.62	-----	2.01	2.00	2.01	-----	26 75	1568
3.32	0.70	0.41	8.70	-----	8.20	7.00	0.50	-----	2.15	2.00	2.15	-----	28 00	1975
4.27	0.65	0.41	8.01	-----	7.63	7.00	0.38	-----	2.10	2.00	2.10	-----	28 00	1812
4.62	1.56	1.65	10.91	-----	10.09	8.00	0.82	-----	*4.05	5.00	4.05	-----	-----	1699
5.24	1.54	1.65	10.02	-----	9.14	8.00	0.88	-----	3.04	3.00	3.04	-----	37 00	1395
5.97	0.88	0.82	10.91	12.00	10.25	10.00	0.66	2.00	2.27	2.00	2.27	-----	28 00	1751
5.05	1.99	1.65	11.03	11.00	10.29	10.00	0.74	1.00	4.56	4.00	4.56	-----	-----	1457
6.89	1.82	1.65	10.11	9.00	8.65	8.00	1.46	1.00	2.18	2.00	2.18	-----	37 00	1274
2.60	2.17	1.65	9.87	9.00	8.55	8.00	1.32	1.00	2.48	2.00	2.48	-----	35 00	2202
5.28	1.81	1.65	11.18	9.00	8.86	8.00	2.32	1.00	3.05	3.00	3.05	-----	35 00	1648
7.28	1.70	1.65	10.60	9.00	8.72	8.00	2.08	1.00	3.04	3.00	3.04	-----	34 50	1366
2.70	2.01	1.65	10.97	9.00	8.45	8.00	2.52	1.00	3.17	3.00	3.17	-----	36 00	2166
6.11	0.49	0.41	9.59	9.00	8.45	8.00	1.14	1.00	1.05	1.00	1.05	-----	30 00	1273
3.86	0.98	0.82	9.80	9.00	8.56	8.00	1.24	1.00	*1.78	2.00	1.78	-----	31 50	1636
7.33	0.85	0.82	9.52	9.00	8.28	8.00	1.24	1.00	2.19	2.00	2.19	-----	30 00	1365
5.85	1.92	1.65	9.33	9.00	8.39	8.00	0.94	1.00	*9.53	10.00	9.53	-----	45 00	1486
5.66	0.98	0.82	9.72	9.00	8.62	8.00	1.10	1.00	1.18	1.00	1.18	-----	32 00	1604
2.45	1.85	1.64	9.38	9.00	8.84	8.00	0.54	1.00	5.13	4.00	5.13	-----	34 00	1859
2.70	1.65	1.64	9.98	9.00	8.46	8.00	1.52	1.00	4.26	4.00	4.26	-----	37 50	2011
4.40	0.99	0.82	12.31	11.00	10.95	10.00	1.36	1.00	2.15	2.00	2.15	-----	32 50	2010
2.62	1.00	0.82	10.75	11.00	10.01	10.00	0.74	1.00	1.88	2.00	1.88	-----	34 25	2134

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
1432	Reading	1-8-5, -----	Phaon Heffner, Kutztown, -----	
2012	Reading	1-8-5, -----	J. K. Lewis, Honeybrook, -----	
1647	Reading	4-8 and 6, -----	S. M. Kline, Lebanon, -----	
	READING CHEMICAL CO., READING, PA.			
1275	Cheapest in the End,	-----	A. M. Miller, Stouchsburg, -----	
1276	Complete Fertilizer,	-----	A. M. Miller, Stouchsburg, -----	
2075	Peerless Mixture,	-----	S. L. Harrison, Wilkes-Barre, -----	
2170	Reading All Crop,	-----	W. W. Parker, Rohrsburg, -----	
1688	Reading All Crop,	-----	James Poust, Hughesville, -----	
1939	Reading Old Standard,	-----	C. E. Frazer, Mill Hall, -----	
1940	Tankage and Potash Mixture,	-----	C. E. Frazer, Mill Hall, -----	
1272	Tankage and Potash Mixture,	-----	A. E. Spittler, Myerstown, -----	
	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.			
1852	Royster's Banner Guano,	-----	John P. Fisher, Douglassville, -----	
1317	Royster's Banner Guano,	-----	E. B. Jermyn, Waymarth, -----	
1954	Royster's Cuckoo Guano,	-----	L. K. Gruber, Reinhold Station, -----	
1832	Royster's Cuckoo Guano,	-----	J. M. Rider, Millville, -----	
1441	Royster's Dreadnought Guano,	-----	David Reigel, Jonestown, -----	
1466	Royster's Economy Guano,	-----	Davis & Hyde, Spartansburg, -----	
1831	Royster's Economy Guano,	-----	J. M. Rider, Millville, -----	
2126	Royster's Economy Guano,	-----	Charles Wilhelm, Bethlehem, -----	
1953	Royster's Fish, Flesh and Fowl,	-----	L. K. Gruber, Reinhold Station, -----	
1828	Royster's Fish, Flesh and Fowl,	-----	J. M. Rider, Millville, -----	
1368	Royster's Fish, Flesh and Fowl,	-----	Harvey Spencer, Cochranville, -----	
1262	Royster's Rational Guano,	-----	Frank Frederick, Reinhold's Station, -----	
2685	Royster's Seeding Down Guano,	-----	Harvey L. Moses, Chester Springs, -----	
1830	Royster's Seeding Down Guano,	-----	J. M. Rider, Millville, -----	
1267	Royster's Seeding Down Guano,	-----	Walter Stumpt, Robesonia, -----	
1805	Royster's Vim Guano,	-----	Great Valley Mills Co., Exton, -----	
1439	Royster's Vim Guano,	-----	David Reigel, Jonestown, -----	
1853	Royster's Wonder Guano,	-----	John P. Fisher, Douglassville, -----	
1691	Royster's Wonder Guano,	-----	McConnell Brothers, Hughesville, -----	
	SCHAAL-SHELDON FERTILIZER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BUFFALO, N. Y.			
1471	Royal,	-----	Silas Farrell, Sizerville, -----	
1472	Schaal's Corn and Potato,	-----	Silas Farrell, Sizerville, -----	
2091	Schaal-Sheldon Guano,	-----	J. R. Houston, Harrisville, -----	
	THE SCOTT FERTILIZER CO., ELKTON, MD.			
1360	Scott's Pennsylvania Potato Grower,	-----	Edw. W. Rupert, Oxford, -----	
2149	Scott's Potato Grower,	-----	C. C. Parry, Rushland, -----	
2110	Scott's Potato Grower,	-----	M. L. Rosenberger, Quakertown, -----	
1359	Scott's Sure Growth Super Phosphate,	-----	Edw. W. Rupert, Oxford, -----	
2150	Scott's Victory Brand,	-----	C. C. Parry, Rushland, -----	
	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA.			
1506	Swift-Sure Grain Grower,	-----	J. A. Werner, Weatherly, -----	
1800	Swift-Sure Super Phosphate for General Use,	-----	W. E. Erwin & Son, Somerset, -----	
	THE SOUTHERN FERTILIZING COMPANY, BALTIMORE, MD.			
1430	Farmers Choice,	-----	S. M. Grim, Maxtawney, -----	
	SWIFT & COMPANY, BALTIMORE, MD.			
2200	Swift's Champion Wheat and Corn Grower 2-12-2.	-----	T. Bender & Son, Muney Valley, -----	

FERTILIZERS—Continued.

Moisture	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
5.95	0.81	0.82	7.91	9.00	*7.43	8.00	0.48	1.00	4.91	5.00	4.91	---	34 50	1432
3.17	1.01	0.82	9.40	9.00	8.86	8.00	0.54	1.00	5.06	5.00	5.06	---	34 50	2012
4.80	*2.91	3.29	10.94	9.00	9.42	8.00	1.52	1.00	5.35	6.00	8.35	---	45 25	1647
4.50	*2.70	3.29	9.86	9.00	8.92	8.00	0.94	1.00	*5.83	7.00	5.83	---	---	1275
4.16	0.90	0.82	10.21	9.00	9.25	8.00	0.96	1.56	1.25	1.00	1.25	---	---	1276
1.45	1.82	1.64	9.49	9.00	8.11	8.00	1.38	1.06	4.51	4.00	4.51	---	29 00	2075
2.37	2.06	1.65	12.63	13.00	12.39	12.00	0.54	1.00	2.48	2.00	2.48	---	34 33	2170
5.22	1.56	1.65	13.89	13.00	12.73	12.00	1.16	1.00	1.97	2.00	1.97	---	33 00	1688
1.77	1.76	1.65	8.34	9.00	*7.80	8.00	0.54	1.00	1.96	2.00	1.96	---	30 00	1969
2.92	1.64	0.82	9.32	9.00	8.78	8.00	0.54	1.00	4.13	4.00	4.13	---	30 00	1970
3.88	0.86	0.82	9.26	9.00	8.22	8.00	1.04	1.00	4.43	4.00	4.43	---	---	1272
1.27	1.68	1.65	9.44	8.50	8.30	8.00	1.14	0.50	10.16	10.00	10.16	---	42 75	1852
7.13	1.70	1.65	8.61	8.50	8.05	8.00	0.56	0.50	10.48	10.00	10.48	---	60 00	1317
1.12	1.00	0.82	8.98	8.50	7.90	8.00	1.08	0.50	1.34	1.00	1.34	---	28 00	1954
1.30	1.05	0.82	9.38	8.50	8.32	8.00	1.06	0.50	1.19	1.00	1.19	---	27 50	1832
3.38	1.67	1.65	9.32	8.50	8.46	8.00	0.86	0.50	2.04	2.00	2.04	---	---	1441
4.39	0.90	0.82	8.48	8.50	*7.26	8.00	1.12	0.50	1.97	2.00	1.97	---	33 00	1466
4.27	1.00	0.82	9.34	8.50	8.30	8.00	1.04	0.50	2.23	2.00	2.23	---	28 75	1831
1.22	0.95	0.82	9.40	8.50	8.28	8.00	1.12	0.50	2.32	2.00	2.32	---	27 30	2126
1.55	1.75	1.65	9.60	8.50	8.50	8.00	1.10	0.50	3.07	3.00	3.07	---	34 00	1953
2.10	1.72	1.65	9.99	8.50	8.65	8.00	1.34	0.50	3.10	3.00	3.10	---	34 10	1823
5.83	1.70	1.65	9.59	8.50	*7.79	8.00	1.80	0.50	3.43	3.00	3.43	---	34 00	1368
4.59	0.92	0.82	9.32	8.50	8.08	8.00	1.24	0.50	4.40	4.00	4.40	---	30 25	1262
3.22	1.04	0.82	10.54	9.50	9.68	9.00	0.86	0.50	3.16	3.00	3.16	---	34 00	2085
2.05	0.80	0.82	10.52	9.50	9.38	9.00	1.14	0.50	3.00	3.00	3.00	---	31 25	1830
5.30	1.00	0.82	10.43	9.50	9.51	9.00	0.92	0.50	3.13	3.00	3.13	---	32 50	1267
5.45	1.82	1.65	13.15	12.50	12.49	12.00	0.66	0.50	2.11	2.00	2.11	---	37 00	1805
6.76	1.75	1.65	13.40	12.50	12.50	12.00	0.90	0.50	2.10	2.00	2.10	---	36 00	1439
2.93	1.05	0.82	9.94	8.50	8.50	8.00	1.44	0.50	3.63	3.00	3.03	---	30 75	1853
2.94	1.03	0.82	9.60	8.50	9.22	8.00	0.38	0.50	3.31	3.00	3.31	---	35 00	1691
6.54	0.99	0.82	8.24	8.00	7.62	7.00	1.22	1.00	1.12	1.00	1.12	---	33 50	1471
3.53	1.67	1.65	10.29	9.00	8.82	8.00	1.46	1.00	4.14	4.00	2.90	1.24	47 00	1472
2.82	1.00	0.82	9.98	9.00	8.76	8.00	1.22	1.00	4.43	4.00	4.43	---	34 00	2091
5.37	0.84	0.82	8.94	-----	8.10	8.00	0.84	-----	2.22	2.00	2.22	---	30 00	1366
3.10	1.87	1.65	11.28	-----	10.28	10.00	1.00	-----	4.89	4.00	4.89	---	35 50	2149
2.62	1.68	1.65	12.24	-----	11.12	10.00	1.12	-----	4.42	4.00	4.42	---	35 00	2110
4.96	1.46	1.65	8.87	-----	*7.47	8.00	1.40	-----	*1.75	2.00	1.75	---	33 50	1359
2.12	1.85	1.65	8.98	-----	8.16	8.00	0.82	-----	3.22	3.00	3.22	---	32 50	2150
6.88	1.63	1.65	10.64	9.00	9.34	8.00	1.30	1.00	5.95	5.00	5.95	---	32 50	1596
4.91	2.72	2.46	11.90	10.00	9.96	8.00	1.94	2.00	3.89	3.00	3.89	---	38 00	1800
6.35	0.90	0.82	10.84	10.00	9.14	9.00	1.70	1.00	2.03	2.00	2.03	---	28 50	1430
3.05	1.58	1.65	13.33	12.00	13.07	12.00	6.26	-----	1.82	2.00	1.82	---	43 35	2200

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1330	Swift's Champion Wheat and Corn Grower 2-12-2.	J. C. Benfield, Milton, -----
1585	Swift's Champion Wheat and Corn Grower 2-12-2.	M. S. Schwalm, Hegins, -----
1737	Swift's Champion Wheat and Corn Grower 2-12-2.	H. Van Vleet, East Stroudsburg, -----
1501	Swift's Diamond B. Fertilizer 3-8-5, -----	D. L. Hertzler, Mechanicsburg, -----
1915	Swift's Grain Fertilizer 1-8-2, -----	Wm. B. Barnitz, Carlisle, -----
1497	Swift's Grain Fertilizer 1-8-2, -----	D. L. Hertzler, Mechanicsburg, -----
1707	Swift's Grain Fertilizer 1-8-2, -----	A. L. Steigerwalt, Andreas, -----
2122	Swift's Red Steer 2-8-2, -----	Charles Beers, Easton, -----
2206	Swift's Red Steer 2-8-2, -----	C. A. Conrad, Hop Bottom, -----
1372	Swift's Red Steer 2-8-2, -----	Pomona No. 3 Grange Exchange, West Chester, -----
1709	Swift's Red Steer 2-8-2, -----	L. A. Steigerwalt, Andreas, -----
1916	Swift's Reliable Grain Fertilizer 1-8-1, ---	Wm. B. Barnitz, Carlisle, -----
2100	Swift's Reliable Grain Fertilizer 1-8-1, ---	I. M. Osborn, Kennard, -----
1329	Swift's Special Corn and Wheat Grower 2-10-4.	J. C. Benfield, Milton, -----
1864	Swift's Special Corn and Wheat Grower 2-10-4.	Maurice Flickinger, Lebanon, -----
1708	Swift's Special Corn and Wheat Grower 2-10-4.	L. A. Steigerwalt, Andreas, -----
I. P. THOMAS & SON CO., PHILADELPHIA, PA.		
2046	Farmer's Choice 2-12-2, -----	Fred Seldonridge, Gap, -----
1778	Farmer's Choice 2-12-2, -----	Yeakel & Huzzard, Norristown, -----
1797	General Use Fertilizer 2-8-2, -----	Wm. C. Ball, Media, -----
1587	General Use Fertilizer 2-8-2, -----	J. J. Gerhard, Weatherly, -----
1875	General Use Fertilizer 2-8-2, -----	B. F. Specht, Stoystown, -----
2207	General Use Fertilizer 2-8-2, -----	A. E. Woodruff & Son, Wysox, -----
2187	Grain Special Fertilizer 1-8-2, -----	A. M. Frederick, Fairchance, -----
1619	Grain Special Fertilizer 1-8-2, -----	Theo. M. Griffith & Son, Downingtown, -----
1664	Grain Special Fertilizer 1-8-2, -----	King Brothers, Uniontown, -----
1630	Grain Special Fertilizer 1-8-2, -----	Geo. K. Sondag, Hamburg, -----
1629	Improved Fertilizer 1-10-1, -----	Geo. K. Sondag, Hamburg, -----
1825	Peerless Fertilizer 1-9-3, -----	Preston Eves & Son, Millville, -----
2188	Superior Superphosphate 1-7-1, -----	A. M. Frederick, Fairchance, -----
1777	Tip Top Super Phosphate 3-8-4, -----	Yeakel & Huzzard, Norristown, -----
1847	Victor Potash Fertilizer 2-8-5, -----	C. S. Davidheiser, Gilbertsville, -----
1823	Victor Potash Fertilizer 2-8-5, -----	Preston Eves & Son, Millville, -----
1696	Victor Potash Fertilizer 2-8-5, -----	J. J. Gerhard, Weatherly, -----
JACOB TRINLEY & SONS, LINFIELD, PA.		
2026	Trinley's Two—Eight—Two, -----	Mowrey-Latshaw Hardware Co., Spring City, -----
F. W. TUNNELL & COMPANY, INC., PHILADELPHIA, PA.		
1600	Fall Crop Grower, -----	H. A. Mendenhall, Toughkenamon, -----
1601	Sweet Potato Manure, -----	H. A. Mendenhall, Toughkenamon, -----
VIRGINIA-CAROLINA CHEMICAL CO., OF DELAWARE, BALTIMORE, MD.		
1924	V. C. Fish and Potash Mixture, -----	Roy Fletcher, Everett, -----
1265	V. C. Fish and Potash Mixture, -----	Lawrence Schaffer, Tulpehocken, -----
2178	V. C. One Nine Three, -----	W. J. Duvall, Bentleyville, -----
1280	V. C. One Nine Three, -----	Lawrence Schaffer, Tulpehocken, -----
1282	V. C. Special Compound, -----	Lawrence Schaffer, Tulpehocken, -----
2177	V. C. Standard Crop Grower, -----	W. J. Duvall, Bentleyville, -----
1925	V. C. Standard Grain Grower, -----	Roy Fletcher, Everett, -----
1279	V. C. Standard Grain Grower, -----	Lawrence Schaffer, Tulpehocken, -----

FERTILIZERS—Continued.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
6.82	1.83	1.65	11.54	12.00	*11.03	12.00	0.51	-----	2.36	2.00	2.36	-----	35 15	1330
3.07	1.91	1.65	13.16	12.00	12.70	12.00	0.46	-----	2.51	2.00	2.51	-----	-----	1585
4.61	2.01	1.65	12.60	12.00	12.10	12.00	0.50	-----	2.69	2.00	2.69	-----	50 00	1737
2.73	2.51	2.47	9.24	8.00	8.80	8.00	0.44	-----	5.13	5.00	5.13	-----	38 50	1501
1.62	1.00	0.82	8.92	8.00	8.52	8.00	0.40	-----	1.92	2.00	1.92	-----	28 00	1915
3.05	0.96	0.82	8.50	8.00	8.24	8.00	0.26	-----	1.98	2.00	1.98	-----	27 75	1497
2.25	1.00	0.82	8.51	8.00	8.31	8.00	0.20	-----	2.12	2.00	2.12	-----	28 50	1707
1.47	1.71	1.65	8.83	8.00	8.47	8.00	0.26	-----	2.29	2.00	2.29	-----	19 50	2122
5.02	*1.42	1.65	7.95	8.00	*7.80	8.00	0.15	-----	2.40	2.00	2.40	-----	45 00	2206
3.48	1.76	1.65	9.20	-----	8.66	8.00	0.54	-----	2.01	2.00	2.01	-----	30 00	1372
2.40	1.91	1.65	9.02	8.00	8.74	8.00	0.28	-----	2.28	2.00	2.28	-----	31 00	1709
1.62	1.09	0.82	9.12	8.00	8.78	8.00	0.34	-----	1.05	1.00	1.05	-----	26 50	1916
1.20	1.00	0.82	8.74	8.00	8.20	8.00	0.54	-----	1.60	1.00	1.60	-----	37 50	2100
6.21	1.65	1.65	9.95	10.00	*9.62	10.00	0.33	-----	4.47	4.00	4.47	-----	35 80	1329
2.57	1.85	1.65	11.38	10.00	11.02	10.00	0.36	-----	3.95	4.00	3.95	-----	35 50	1864
2.97	1.72	1.65	10.80	10.00	10.58	10.00	0.22	-----	4.54	4.00	4.54	-----	20 00	1708
4.00	1.99	1.65	14.03	12.50	13.55	12.00	0.48	0.50	2.19	2.00	2.19	-----	-----	2046
5.80	2.01	1.65	14.09	12.50	13.35	12.00	0.74	0.50	2.14	2.00	2.14	-----	38 50	1778
3.02	1.88	1.65	9.63	8.50	8.85	8.00	0.78	0.50	2.28	2.00	2.28	-----	40 00	1797
8.06	1.75	1.65	9.36	8.50	8.48	8.00	0.88	0.50	2.26	2.00	2.26	-----	-----	1597
1.42	1.98	1.65	10.13	8.50	9.23	8.00	0.90	0.50	2.44	2.00	2.44	-----	35 00	1875
7.15	1.54	1.65	10.56	8.50	9.60	8.00	0.96	0.50	2.08	2.00	2.08	-----	35 00	2207
7.42	1.10	0.82	10.54	8.50	9.30	8.00	1.24	0.50	2.11	2.00	2.11	-----	32 00	2187
4.32	1.01	0.82	9.75	8.50	8.91	8.00	0.84	0.50	2.71	2.00	2.71	-----	33 00	1619
5.78	1.05	0.82	10.46	8.50	9.22	8.00	1.24	0.50	2.15	2.00	2.15	-----	35 00	1664
6.22	1.11	0.82	9.76	8.50	8.60	8.00	1.16	0.50	2.10	2.00	2.10	-----	24 50	1630
5.54	1.23	0.82	12.08	-----	11.02	10.00	1.66	-----	1.54	1.00	1.54	-----	25 00	1629
6.30	1.05	0.82	11.16	9.50	9.88	9.00	1.28	0.50	3.17	3.00	3.17	-----	31 00	1825
7.40	1.00	0.82	9.62	7.50	7.94	7.00	1.08	0.50	1.22	1.00	1.22	-----	28 00	2183
5.63	2.89	2.45	10.91	8.50	9.65	8.00	1.26	0.50	4.49	4.00	4.49	-----	41 50	1777
3.50	1.62	1.65	10.40	8.50	9.52	8.00	0.88	0.50	5.04	5.00	5.04	-----	35 00	1847
5.29	1.53	1.65	10.82	8.50	9.82	8.00	1.00	0.50	5.28	5.00	5.28	-----	36 00	1823
4.90	1.90	1.65	10.08	8.50	9.24	8.00	0.84	0.50	5.02	5.00	5.02	-----	-----	1696
4.27	2.03	1.64	11.97	9.00	10.41	8 00	1.56	1.00	2.31	2.00	2.31	-----	34 00	2026
4.60	1.27	0.82	10.57	9.00	8.49	8 00	2.08	1.00	2.31	2.00	2.31	-----	31 00	1600
5.69	1.87	1.64	10.47	9.00	8.39	8.00	2.08	1.00	2.39	2.00	2.39	-----	34 00	1601
3.62	2.00	1.65	10.60	9.00	8.80	8.00	1.80	1.00	3.42	3.00	3.42	-----	35 00	1924
5.30	1.76	1.65	10.58	9.00	8.52	8.00	2.66	1.00	3.04	3.00	3.04	-----	32 50	1265
2.67	1.02	0.82	11.48	10.00	10.00	9.00	1.48	1.00	3.58	3.00	3.58	-----	38 00	2178
6.08	0.90	0.82	11.25	10.00	9.87	9.00	1.38	1.00	2.94	3.00	2.94	-----	30 25	1280
5.14	1.06	0.82	10.18	9.00	8.76	8.00	1.42	1.00	1.10	1.00	1.10	-----	27 25	1282
3.22	2.00	1.65	10.12	9.00	8.80	8.00	1.82	1.00	2.05	2.00	2.05	-----	36 50	2177
6.70	1.00	0.82	9.61	9.00	8.65	8.00	0.96	1.00	2.34	2.00	2.34	-----	30 00	1925
5.92	1.11	0.82	10.06	9.00	8.84	8.00	1.22	1.00	2.41	2.00	2.41	-----	27 50	1279

*Deficient.

TABLE II.—COMPLETE

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
	WASHINGTON, ALEXANDER & COOKE CO., AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL CO., CHARLES TOWN, W. VA.			
1510	Wacco Crop Grower, -----		Geo. P. Livingston, East Berlin, -----	
1749	Wacco Potato and Tobacco Manure, ----		E. S. Kelly, Gettysburg, -----	
1504	Wacco Potato and Tobacco Manure, ----		Geo. P. Livingston, East Berlin, -----	
1997	Wacco Potato and Tobacco Manure, ----		Quarryville Farmers Association, Quarry- ville. -----	
1748	Wacco Regular Potato and Tobacco Grower. -----		E. S. Kelly, Gettysburg, -----	
1508	Wacco Regular Potato and Tobacco Grower. -----		Geo. P. Livingston, East Berlin, -----	
1996	Wacco Regular Potato and Tobacco Grower. -----		Quarryville Farmers Association, Quarry- ville. -----	
1506	Wacco Wheat, Corn and Oats Mixture, --		Geo. P. Livingston, East Berlin, -----	
	YORK CHEMICAL WORKS, YORK, PA.			
1377	Grain Special, -----		Great Valley Mills Co., Paoli, -----	
1920	Grain Special, -----		J. S. Hershberger, Everett, -----	
1982	Grain Special, -----		J. Harry Summy, Landisville, -----	
1562	One, Eight and One, -----		Enos H. Horst, Chambersburg, -----	
1706	One, Eight and Two, -----		E. A. Beck, Lehighton, -----	
1402	One, Eight and Two, -----		E. S. Berkey, Strausstown, -----	
1511	One, Eight and Two, -----		Harry Pyle & Son, Chadds Ford Junc- tion. -----	
1375	Plow Brand, -----		Great Valley Mills Co., Paoli, -----	
1588	Plow Brand, -----		Felix Herb, Pitman, -----	
2195	Plow Brand, -----		Jacob H. Miller, Somerfield, -----	
1613	Potato and Truck, -----		Harry Pyle & Son, Chadds Ford Junc- tion. -----	
1590	Royal Mixture, -----		Felix Herb, Pitman, -----	
2193	Standard, -----		Jacob H. Miller, Somerfield, -----	
1612	Standard, -----		Harry Pyle & Son, Chadds Ford Junc- tion. -----	
1589	Standard Potash, -----		Felix Herb, Pitman, -----	
2192	Standard Potash, -----		Jacob H. Miller, Somerfield, -----	
2147	Standard Potash, -----		H. L. Weitknecht, Northampton, -----	
			Average, -----	

FETILIZERS—Concluded.

Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
3.39	*1.41	1.65	9.92	9.00	9.36	8.00	0.56	1.00	*4.24	5.00	4.24	-----	24 88	1510
4.14	0.62	0.41	8.36	8.00	7.54	7.00	0.82	1.00	2.02	2.00	2.02	-----	26 00	1749
3.28	1.32	0.41	8.96	8.00	8.40	7.00	0.56	1.00	*1.61	2.00	1.61	-----	24 88	1604
3.65	0.54	0.41	7.78	8.00	7.34	7.00	0.44	1.00	1.88	2.00	1.88	-----	26 50	1997
3.58	0.85	0.82	9.90	9.00	9.26	8.00	0.64	1.00	3.74	3.00	3.74	-----	29 50	1748
4.31	0.81	0.82	10.02	9.00	9.36	8.00	0.66	1.00	3.65	3.00	3.65	-----	28 78	1508
2.07	1.01	0.82	10.97	9.00	9.87	8.00	1.10	1.00	3.27	3.00	3.27	-----	30 00	1996
4.45	0.51	0.41	8.91	9.00	8.45	8.00	0.46	1.00	1.03	1.00	1.03	-----	24 64	1506
5.15	1.77	1.64	13.24	12.00	12.80	12.00	0.44	-----	2.41	2.00	2.41	-----	36 50	1377
2.35	1.83	1.64	13.47	12.00	12.99	12.00	0.48	-----	2.09	2.00	2.09	-----	36 00	1920
2.85	1.85	1.64	14.06	12.00	13.68	12.00	0.38	-----	2.33	2.00	2.33	-----	36 00	1982
4.47	0.95	0.82	9.03	8.00	8.61	8.00	0.42	-----	1.23	1.00	1.23	-----	27 25	1562
4.87	0.83	0.82	9.66	8.00	9.04	8.00	0.62	-----	2.41	2.00	2.41	-----	35 00	1706
5.93	0.89	0.82	9.50	8.00	8.94	8.00	0.56	-----	2.23	2.00	2.23	-----	1402	
6.17	0.83	0.82	9.28	8.00	8.64	8.00	0.64	-----	2.45	2.00	2.45	-----	30 00	1611
6.00	1.51	1.64	8.93	8.00	8.27	8.00	0.66	-----	2.05	2.00	2.05	-----	32 50	1375
5.46	1.67	1.65	8.93	8.00	8.09	8.00	0.84	-----	2.46	2.00	2.46	-----	31 80	1588
4.90	1.80	1.64	9.04	8.00	8.00	8.00	1.04	-----	1.86	2.00	1.86	-----	32 00	2195
10.76	*3.50	4.10	8.66	8.00	7.91	8.00	0.75	-----	7.13	7.00	4.70	2.43	50 00	1613
4.91	1.98	1.65	12.41	11.00	11.35	10.00	1.06	1.00	4.27	4.00	4.27	-----	35 60	1590
4.85	1.72	1.64	8.79	8.00	8.23	8.00	0.56	-----	5.28	5.00	5.28	-----	35 00	2193
8.08	1.96	1.64	8.88	8.00	8.28	8.00	0.60	-----	5.38	5.00	5.38	-----	37 00	1612
4.47	0.89	0.82	8.76	8.00	8.10	8.00	0.66	-----	4.45	4.00	4.45	-----	30 40	1589
6.80	0.80	0.82	9.39	8.00	8.65	8.00	0.74	-----	4.57	4.00	4.57	-----	31 00	2192
2.97	0.97	0.82	9.04	8.00	8.30	8.00	0.74	-----	4.65	4.00	4.65	-----	30 00	2147
4.08	1.34	-----	10.14	-----	9.04	-----	1.10	-----	2.86	-----	-----	-----	\$32 88	-----

*Deficient.

TABLE III—NITROGEN AND PHOS
Including Dissolved Bones

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
	ACME BONE FERTILIZER COMPANY, LANCASTER, PA.			
1978	Acme Brand, -----		Samuel Sheets, Petersburg, -----	
	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK. N. Y.			
1995	Ammoniated Fertilizer A, -----		John Greenleaf, Quarryville, -----	
1711	Ammoniated Fertilizer A, -----		N. D. Hunsicker, Snyder, -----	
2117	Ammoniated Fertilizer A, -----		Edward S. Lambrite, Pipersville, -----	
1986	Ammoniated Fertilizer AA, -----		John Greenleaf, Quarryville, -----	
1533	Ammoniated Fertilizer AAA, -----		O. Van Buskirk, Clarke Summit, -----	
2008	Bowker's Super Phosphate with Ammonia 2%.		Newton Lantz, Atglen, -----	
2210	Bradley's Special Superior Compound, -----		Asa Wilcox, Millerton, -----	
2639	Josiah Cope's Fish Phosphate, -----		Jones Eavenson, Christiana, -----	
1325	Crocker's Special Grain Grower, -----		I. W. Bunnell, Pleasant Mount, -----	
1521	Ludlam's Cecrops Sickle Fertilizer No. 1, -----		Curtis Bushey, Clear Spring, -----	
1522	Ludlam's Cecrops Sickle Fertilizer No. 2, -----		Curtis Bushey, Clear Spring, -----	
1535	Nassau Ammoniated Potato Compound, -----		A. A. Chamberlain, Gouldsboro, -----	
1905	Nassau Common Sense Fertilizer Revised, -----		Wm. B. Barnitz, Carlisle, -----	
1904	Nassau Old Hickory Revised, -----		Wm. B. Barnitz, Carlisle, -----	
1403	Nassau Old Hickory Revised, -----		H. S. Lesher, Bernville, -----	
1930	Pollock's Ammoniated Fertilizer AA, -----		Albert Dively, Bedford, -----	
1921	Schaal-Sheldon's Ammoniated Superphos- phate.		J. E. Jackson, Everett, -----	
2116	Soluble Grain Mixture, -----		Edward S. Lambrite, Pipersville, -----	
2006	Special Bone Mixture, -----		Newton Lantz, Atglen, -----	
2013	Susquehanna Winners Phosphate, -----		Gideon Stoltzfus, Supplee, -----	
1481	J. E. Tygert's Ammoniated Fertilizer A, -----		P. A. Ackley, Westfield, -----	
1515	Woolridge's General Crop Grower, -----		Robert Wentz, Wellsville, -----	
	AMERICAN FERTILIZING COMPANY, BALTIMORE, MD.			
1627	American Fish Special, -----		Barnett Brothers, Oxford, -----	
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.			
1301	Ammoniated Superphosphate, -----		Geo. W. Anderson, Cessna, -----	
1675	Armour's Grain Special, -----		Jeff Altfather, Berlin, -----	
1300	Armour's Grain Special, -----		Geo. W. Anderson, Cessna, -----	
1888	Armour's Grain Special, -----		Geo. L. Moore, Brownsville, -----	
1786	Tuscarora Big Chief, -----		A. F. Leidy, Delphi, -----	
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.			
2169	Baugh's Grain and Grass Grower, -----		H. B. Low & Son, Orangeville, -----	
1381	Baugh's Half and Half Mixture, -----		Bunting Brothers, Oxford, -----	
2201	Baugh's Half and Half Mixture, -----		Farmers Supply Co., Milan, -----	
1803	Baugh's Peninsular Grain Producer, -----		J. W. Craft & Sons, Ambler, -----	
1836	Baugh's Peninsular Grain Producer, -----		A. W. Eves, Millville, -----	
1678	Baugh's Peninsular Grain Producer, -----		C. H. Schmucker, Friedens, -----	
2132	Baugh's The Old Stand-By Dissolved Ani- mal Base.		Lehigh Exchange Inc., Germansville, -----	
	BOWKER FERTILIZER COMPANY, SUB- SIDIARY OF THE AMERICAN AGRI- CULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.			
1542	Bowker's Superphosphate with Ammonia 2%.		George Chichura, Olyphant, -----	

PHORIC ACID FERTILIZERS.

And Other Like Products.

Moisture.	NITROGEN.		PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
% 2.50	% 0.82	% 0.82	% 10.77	% 10-13	% 9.63	% 9-11	% 1.14	%	\$	1978
1.55	1.00	0.82	11.40	11.00	10.38	10.00	1.02	1.00	23 00	1995
2.09	1.04	0.82	11.67	11.00	10.77	10.00	0.90	1.00	-----	1711
1.87	1.15	0.82	12.79	11.00	10.65	10.00	2.14	2.00	32 00	2117
7.47	1.91	1.65	11.54	11.00	10.44	10.00	1.10	1.00	30 00	1986
2.11	2.60	2.47	12.96	11.00	10.94	10.00	2.02	1.00	39 00	1533
2.07	1.85	1.65	12.25	11.00	10.83	10.00	1.42	1.00	31 00	2003
4.27	*1.05	1.65	10.84	11.00	10.18	10.00	0.66	1.00	40 00	2210
1.12	0.87	0.82	9.82	9.00	8.14	8.00	1.68	1.00	27 00	2039
3.45	2.00	1.65	11.93	11.00	*9.68	10.00	2.25	1.00	35 00	1325
1.89	1.00	0.82	11.86	11.00	10.82	10.00	1.04	1.00	27 47	1521
2.05	1.86	1.65	12.12	11.00	10.88	10.00	1.24	1.00	31 22	1522
3.60	3.50	2.47	12.22	11.00	10.92	10.00	1.30	1.00	47 20	1536
1.22	1.88	1.65	12.26	11.00	11.02	10.00	1.24	1.00	30 50	1905
1.40	1.03	0.82	11.70	11.00	10.82	10.00	0.88	1.00	27 00	1904
2.25	0.90	0.82	11.89	11.00	10.75	10.00	1.14	1.00	28 25	1403
3.37	1.96	1.65	12.08	11.00	10.76	10.00	1.32	1.00	-----	1930
0.92	1.05	0.82	9.53	9.00	8.29	8.00	1.24	1.00	28 00	1921
1.08	1.13	0.82	10.66	9.00	8.56	8.00	1.50	1.00	-----	2116
1.80	1.56	1.23	19.17	19.00	11.35	10.00	7.82	9.00	30 00	2006
1.35	1.98	1.65	11.95	11.00	10.41	10.00	1.54	1.00	-----	2013
2.08	0.90	0.82	11.84	11.00	10.52	10.00	1.32	1.00	34 00	1481
5.76	1.30	0.82	9.98	9.00	8.44	8.00	1.54	1.00	-----	1515
3.74	1.91	1.65	13.91	12.00	11.92	11.00	1.98	1.00	32 00	1627
2.76	0.99	0.82	12.26	10.50	10.66	10.00	1.60	0.50	30 00	1301
2.12	1.81	1.65	12.04	10.50	10.88	10.00	1.16	0.50	35 00	1675
2.19	1.86	1.65	12.04	10.50	10.72	10.00	1.32	0.50	33 50	1300
1.45	1.77	1.65	12.00	10.50	10.70	10.00	1.30	0.50	38 50	1888
2.53	1.18	0.82	11.82	10.50	10.38	10.00	1.44	0.50	31 00	1786
2.02	2.03	1.65	11.06	11.00	10.12	10.00	0.94	1.00	33 25	2169
2.45	1.50	1.23	20.22	17.00	11.90	12.00	8.32	5.00	33 00	1381
1.72	1.67	1.23	19.92	17.00	12.62	12.00	7.30	5.00	37 00	2201
3.17	1.15	0.82	10.52	9.00	9.76	9.00	0.76	-----	30 00	1803
2.56	1.07	0.82	10.84	9.00	9.62	9.00	1.22	-----	27 60	1836
2.21	1.05	0.82	10.93	9.00	9.21	9.00	1.72	-----	28 00	1678
2.65	1.87	1.65	13.46	12.00	12.55	12.00	0.88	-----	33 25	2132
4.42	1.95	1.65	11.88	11.00	10.84	10.00	1.05	1.00	38 00	1542

*Deficient.

TABLE III—NITROGEN AND PHOS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1898	THE CENTRAL CHEMICAL COMPANY, HAGERSTOWN, MD. Gro-All Acme Brand, -----	Burgettstown Feed & Supply Co., Bur- gettstown.
1760	Gro-All Acme Brand, -----	Mercersburg Elevator Co., Mercersburg.
1701	Gro-All Farmers Compound, -----	Mahlon Hamm, Lehighton, -----
1672	Gro-All Farmers Compound, -----	Lloyd Hay, Meyersdale, -----
1624	Gro-All Fish Compound, -----	S. K. Chambers & Brother, Elkview, --
1482	Gro-All Planters Compound, -----	M. S. Haskell, Knoxville, -----
1646	THE COE-MORTIMER COMPANY, SUB- SIDIARY OF THE AMERICAN AGRI- CULTURAL CHEMICAL COMPANY, NEW YORK, N. Y. E. Frank Coe's XXV Ammoniated Phos- phate.	C. S. Zimmerman, Quenten, -----
1333	THE FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA. Farmers Crop Grower, -----	Farmers Co-operative Association, Lewis- town.
1865	Farmers Golden Sheaf, -----	J. H. Heterich, Palmyra, -----
1666	Griffith & Boyd Co., BALTIMORE, MD. Griffith & Boyd Co.'s Farmers Mixture, --	J. F. Hogsett & Sons, Uniontown, ----
1626	Griffith & Boyd Co.'s Fish and Blood Mix- ture	S. K. Chambers & Brother, Elkview, --
1625	Griffith & Boyd Co.'s Peerless Mixture, --	S. K. Chambers & Brother, Elkview, --
1899	Griffith & Boyd Co.'s Peerless Mixture, --	Peacock Brothers, Huston, -----
1788	S. M. HESS & BROTHER, INC., SUBSI- DIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL COMPANY, NEW YORK, N. Y. Ammoniated Grain Grower, -----	J. M. Hildebeitel, Green Lane, -----
2129	P. HOFFMAN & BROTHER, RAUBS- VILLE, PA. Hoffmans All Crop Fertilizer, -----	P. Hoffman & Brother, Raubsville, ---
1487	INTERNATIONAL AGRICULTURAL COR- PORATION, BUFFALO FERTILIZER WORKS, BUFFALO, N. Y. Buffalo Crop Grower, -----	C. E. Raucher, Blossburg, -----
1271	LANCASTER BONE FERTILIZER COM- PANY, LANCASTER, PA. Ammoniated Grain Manure, -----	A. D. Engle, Lebanon, -----
2033	Lancaster Peerless, -----	E. B. Fritz & Son, Quarryville, -----
2018	Lancaster Peerless, -----	Henry Zook, Elverson, -----
1944	LANCASTER CHEMICAL COMPANY, LANCASTER, PA. No. 11 Keystone Brand, -----	C. S. Zimmerman, Bismark, -----
1945	No. 14 Wheat and Grass, -----	C. S. Zimmerman, Bismark, -----
2067	LEBANON FERTILIZER WORKS, LEBA- NON, PA. Levan's Ammoniated Super Phosphate Fertilizer.	Horace Kinsley, Pine Grove, -----
1976	Levan's Farmers Mixture, -----	S. S. Eshleman, Elizabethtown, -----
1714	Levan's Farmers Mixture, -----	Harry Keefer, Pine Grove, -----

PHORIC ACID FERTILIZERS—Continued.

Moisture.	NITROGEN.		PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	%	%	\$	
1.80	0.97	0.82	9.71	8.50	9.13	8.00	0.58	0.50	30 00	1898
2.91	0.82	0.82	9.24	-----	8.48	8.00	0.76	-----	27 00	1760
3.73	1.44	1.23	15.38	14.50	14.46	14.00	0.92	0.50	31 90	1701
3.69	1.35	1.23	15.69	14.50	14.39	14.00	1.30	0.50	-----	1672
2.98	1.65	1.25	11.38	10.50	10.42	10.00	0.96	0.50	30 00	1624
6.39	*1.45	1.65	11.59	-----	10.93	10.00	0.66	-----	36 00	1482
1.72	1.01	0.82	11.42	11.00	10.46	10.00	0.96	1.00	32 00	1646
5.25	0.86	0.82	9.82	9.00	8.56	8.00	1.26	1.00	22 85	1333
5.82	1.80	1.65	12.88	11.00	12.52	10.00	0.36	1.00	29 00	1865
8.74	1.78	1.65	11.00	10.00	9.86	9.00	1.14	1.00	35 00	1666
1.11	1.75	1.44	9.60	8.00	8.38	7.00	1.23	1.00	30 00	1626
2.00	0.68	0.41	10.19	9.00	9.29	8.00	0.90	1.00	28 00	1625
1.80	0.76	0.41	10.50	9.00	9.64	8.00	0.86	1.00	26 50	1899
1.82	1.29	0.82	10.20	9.00	9.08	8.00	1.12	1.00	29 00	1783
1.75	1.23	0.82	17.18	10.00	12.90	10.00	4.28	-----	25 00	2129
2.27	0.92	0.80	13.02	11.00	10.68	10.00	2.34	1.00	43 00	1487
1.98	0.95	0.82	8.93	10.00	*8.56	9.00	0.37	1.00	-----	1271
2.00	1.87	1.60	10.12	11.00	9.84	10.00	0.28	1.00	27 00	2023
1.92	1.76	1.60	11.68	11.00	10.66	10.00	1.02	1.00	-----	2018
1.50	*0.55	-----	10.70	-----	8.89	8.00	1.90	1.00	30 50	1944
2.45	1.01	-----	12.95	-----	11.03	10.00	1.92	1.00	33 00	1945
3.92	1.63	1.65	10.78	11.00	10.64	10.00	0.14	1.00	-----	2067
2.65	0.85	0.82	10.83	11.00	10.47	10.00	0.36	1.00	-----	1976
4.10	1.20	0.82	10.93	11.00	10.41	10.00	0.52	1.00	27 50	1714

*Deficient.

TABLE III—NITROGEN AND PHOS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
2057	THE MARTIN FERTILIZER CO., PHILADELPHIA, PA. Martin's Bull Head Brand Crop Producer,	Clayton Kimmel, Orwigsburg, -----
1353	MILLER FERTILIZER COMPANY BALTIMORE, MD.	Hartley & Blaine, Turbotville, -----
2090	M. B. S., -----	G. P. Atwell, Grove City, -----
1791	Miller's No. 1 Special, -----	A. K. Kulp, Pottstown, -----
1971	NITRATE AGENCIES COMPANY, BALTIMORE, MD. Pennsylvania Federated Farmers Association 2-10-0.	Clinton Co-operative Association, Lock Haven.
1745	PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL COMPANY, BALTIMORE, MD. Patapsco Farmers Reliance,	E. C. Thomas, Gettysburg, -----
1460	PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD. Piedmont Special Crop Grower, -----	John G. Simpson, Huntingdon, -----
1364	RASIN-MONUMENTAL COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BALTIMORE, MD.	E. H. Keen & Son, Parksburg, -----
1605	Rasin's Special Fish Guano, -----	W. H. Walker & Co., Kennett Square, -----
1315	READING BONE FERTILIZER CO., READING, PA.	G. B. Correll, Newfoundland, -----
1268	Animal Tankage Mixture, -----	Isaac H. Leshner, Bernville, -----
1336	Dissolved Animal Matter, -----	W. M. Simington, Potts Grove, -----
1312	Reading Special Grain and Grass Producer,	G. B. Correll, Newfoundland, -----
1433	Reading Special Grain and Grass Producer,	C. E. Fister, Kutztown, -----
1314	Reading Special Potato and Tobacco Manure.	G. B. Correll, Newfoundland, -----
2078	READING CHEMICAL CO., READING, Reading Soil Builder, -----	S. L. Harrison, Wilkes-Barre, -----
1829	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.	J. M. Rider, Millville, -----
1594	Royster's Honor Brand, -----	Harry Lucas, Hegins, -----
2102	SCHAAL-SHELDON FERTILIZER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BUFFALO, N. Y.	W. T. Boyd, Sharpsville, -----
1473	Ammoniated Superphosphate No. 1, -----	Silas Farrell, Sizerville, -----
1799	Ammoniated Superphosphate No. 2, -----	W. E. Erwin & Son, Somerton, -----
1498	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA. Swift Sure Spring and Fall Trade, -----	D. L. Hertzler, Mechanicsburg, -----
	SWIFT & COMPANY, BALTIMORE, MD. Swift's Ammoniated Phosphate 1-10-0, -----	

PHORIC ACID FERTILIZERS—Continued.

Moisture.	NITROGEN.		PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	%	%	\$	
2.22	1.15	1.02	14.42	11.00	10.96	10.00	3.46	1.00	-----	2057
4.65	0.51	-----	9.34	-----	8.84	8.00	0.50	0.50	25 12	1353
1.90	1.65	-----	11.52	-----	10.04	10.00	1.48	0.50	34 00	2090
2.92	1.64	-----	11.66	-----	10.02	10.00	1.64	0.50	32 50	1791
2.62	1.87	1.64	11.62	11.00	11.20	10.00	0.42	1.00	30 05	1971
1.97	1.01	0.82	10.35	9.00	8.75	8.00	1.60	1.00	-----	1745
3.80	0.94	0.82	11.89	-----	11.17	10.00	0.72	-----	32 00	1466
4.43	1.72	1.65	13.68	12.00	11.52	11.00	2.16	1.00	33 50	1364
1.50	0.98	0.82	11.35	11.00	10.02	10.00	1.33	1.00	31 00	1605
2.53	2.06	1.64	17.42	15.00	14.98	14.00	2.44	1.00	45 50	1315
5.44	1.00	0.82	11.54	11.00	10.72	10.00	0.82	1.00	27 25	1268
6.99	0.91	0.82	10.72	11.00	9.87	10.00	0.85	1.00	25 35	1326
3.48	1.20	0.82	8.20	8.00	7.28	7.00	0.92	1.00	30 25	1312
3.54	1.10	0.82	8.32	8.00	7.70	7.00	0.62	1.00	27 75	1433
5.09	0.86	0.82	13.27	13.00	*11.70	12.00	1.57	1.00	38 00	1314
2.07	1.77	1.64	11.86	11.00	10.78	10.00	1.08	1.00	-----	2078
3.10	1.74	1.65	11.82	10.50	10.06	10.00	1.76	0.50	31 75	1829
2.20	2.20	2.06	13.52	12.50	*11.68	12.00	1.84	0.50	-----	1594
1.20	1.01	0.82	12.96	11.00	11.50	10.00	1.46	1.00	-----	2102
1.32	1.99	1.65	12.29	11.00	10.82	10.00	1.46	1.00	26 00	1473
4.03	2.13	1.64	15.32	14.00	12.82	12.00	2.50	2.00	35 00	1799
2.92	0.99	0.82	11.20	10.00	10.94	10.00	0.26	-----	27 00	1498

*Deficient.

TABLE III—NITROGEN AND PHOS

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—	
	I. P. THOMAS & SON CO., PHILADELPHIA, PA.			
1620	Thomas Triumph Manure 1-10-0, -----		Theo. M. Griffith & Son, Downingtown, -----	
1574	Thomas Triumph Manure 1-10-0, -----		John Maurer, Pitman, -----	
1628	Thomas Wheat and Corn Guano, -----		Geo. K. Sondag, Hamburg, -----	
	JACOB TRINLEY & SONS, LINFIELD, PA.			
2024	Favorite Phosphate, -----		Mowrey-Latshaw Hardware Co., Spring City. -----	
	F. W. TUNNELL & COMPANY, INC., PHILADELPHIA, PA.			
1770	Fish Manure, -----		W. B. Passmore, Embreeville, -----	
1768	Grain Manure, -----		W. B. Passmore, Embreeville, -----	
1769	1921 Potato and Vegetable Manure, -----		W. B. Passmore, Embreeville, -----	
	VIRGINIA CAROLINA CHEMICAL CO., OF DELAWARE, BALTIMORE, MD.			
2092	V. C. Special Fish Mixture, -----		W. H. Bochart, Eau Claire, -----	
	WASHINGTON, ALEXANDER & COOKE AFFILIATED WITH VIRGINIA-CAROLINA CHEMICAL CO., CHARLES TOWN, W. VA.			
2030	Wacco Half and Half, -----		Quarryville Farmers Association, Quarryville. -----	
	YORK CHEMICAL WORKS, YORK, PA.			
1378	Crop Grower, -----		Great Valley Mills Co., Paoli, -----	
1446	Prosperity, -----		Farmers Co-operative Association, State College. -----	
			Average, -----	

PHOSPHORIC ACID FERTILIZERS—Concluded.

Moisture.	NITROGEN.		PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	%	%	\$	
2.37	1.21	0.82	12.10	10.50	10.64	10.00	1.46	0.50	32 00	1620
5.09	1.25	0.82	13.07	10.50	12.55	10.00	0.52	0.50	33 75	1574
5.20	1.84	1.65	12.15	10.50	11.61	10.00	0.54	0.50	27 50	1628
4.55	2.07	1.64	12.92	11.00	11.82	10.00	1.10	1.00	33 00	2024
3.30	2.01	1.64	13.20	11.00	10.36	10.00	2.84	1.00	33.75	1770
2.90	1.22	0.82	14.69	13.00	12.43	12.00	2.26	1.00	30 75	1768
3.04	2.00	1.64	13.36	11.00	10.24	10.00	3.12	1.00	32 75	1769
3.35	2.11	1.65	14.67	12.00	12.37	11.00	2.30	1.00	32 50	2092
2.15	1.53	1.03	19.37	-----	13.97	13.00	5.40	-----	36 50	2030
4.80	0.92	0.82	11.66	10.00	10.24	10.00	1.42	-----	26 50	1378
7.67	2.01	1.64	13.39	12.00	12.49	12.00	0.90	-----	30 60	1446
2.99	1.43	-----	12.19	-----	10.63	-----	1.56	-----	\$31 56	-----

*Deficient.

TABLE IV—GROUND
Furnishing Nitrogen

Chemist's number.		
	Name of Manufacturer and Brand.	Sample Taken From—
	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
1910	Fine Ground Bone, -----	Wm. B. Barnitz, Carlisle, -----
2124	Fine Ground Bone, -----	Clarence Hartzell, Bangor, -----
1721	Lister's Bone Meal 1916, -----	G. R. Clark, Scranton, -----
1776	Lister's Bone Meal 1916, -----	Wm. H. Fritz, Berwyn, -----
1321	Lister's Bone Meal 1916, -----	Hull Brothers, Waymarth, -----
1775	Pure Bone Meal, -----	Wm. H. Fritz, Berwyn, -----
1572	Pure Bone Meal, -----	Shippensburg Warehouse Co., Shippensburg, -----
	ARMOUR FERTILIZER WORKS, BALTIMORE, MD.	
1804	Raw Bone Meal, -----	Great Valley Mills Co., Exton, -----
	BAUGH & SONS COMPANY, PHILADELPHIA, PA.	
1723	Baugh's Bone Meal, -----	G. R. Clark, Scranton, -----
1308	Baugh's Bone Meal, -----	J. A. Sequine, Cresco, -----
1617	Baugh's Pure Steamed Bone, -----	Fisher & Nolan, Malvern, -----
1540	Baugh's Pure Steamed Bone, -----	E. J. Hull, Olyphant, -----
1703	Baugh's Pure Steamed Bone, -----	Frank Smith, Lehighton, -----
1548	Baugh's Pure Steamed Bone, -----	J. E. Streeter, Scranton, -----
1289	Baugh's Raw Bone Meal Warranted Pure, -----	Francis Baker, Everett, -----
1379	Baugh's Raw Bone Meal Warranted Pure, -----	Bunting Brothers, Oxford, -----
	THE COE-MORTIMER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
1532	Fine Ground Bone, -----	E. W. White, Adelia, -----
	JACOB DOLD PACKING COMPANY, BUFFALO, N. Y.	
1684	Dold's Quality Bone Meal, -----	Chapel Seed Store, Williamsport, -----
	JAS. G. DOWNWARD CO., COATESVILLE, PA.	
1616	Pure Ground Bone, -----	M. S. Bailey, Malvern, -----
	GRIFFITH & BOYD CO., BALTIMORE, MD.	
2042	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal, -----	Jones Eavenson, Christiana, -----
1820	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal, -----	Houck & Cherrington, Catawissa, -----
1609	Griffith & Boyd Co.'s Pure Fine Ground Bone Meal, -----	Garfield Milhous, Mendenhall, -----
2022	Griffith & Boyd Co.'s Soft Ground Bone Meal, -----	W. E. Wells, Parker Ford, -----
	S. M. HESS & BROTHER, INC., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	
2081	Fine Ground Bone, -----	C. L. Tressler, Conyngham, -----
	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA.	
2062	Keystone Pure Ground Bone, -----	Jno. Kunkle, Mahanoy City, -----
	G. OBER & SONS COMPANY, BALTIMORE, MD.	
2014	Ober's Raw Bone Meal, -----	D. E. Wagerseller, Supplee, -----

BONE FERTILIZERS.
and Phosphoric Acid.

Moisture.	CHEMICAL ANALYSIS.				MECHANICAL ANALYSIS.		Selling price per ton at place of selection.	Chemist's number.
	NITROGEN.		PHOSPHORIC ACID.		Found.	Coarse.		
	Found.	Guaranteed.	Found.	Guaranteed.				
%	%	%	%	%	%	%	\$	
2.65	2.54	2.47	27.64	22.88	61	39	45 00	1910
2.37	2.95	2.47	23.75	22.88	67	33	38 00	2124
2.72	2.48	2.47	25.51	23.00	71	29	46 00	1721
3.25	2.41	2.47	27.30	22.88	73	27	40 50	1776
3.73	3.00	2.47	23.03	23.00	86	14	58 00	1321
7.00	3.90	3.70	21.81	21.51	64	36	41 50	1775
5.79	4.23	3.70	22.34	21.51	53	47	50 00	1572
6.49	4.19	3.70	23.22	21.56	35	65	43 00	1804
7.10	3.55	3.30	19.64	18.30	69	31	42 00	1723
6.36	3.61	3.30	19.95	18.30	59	41	44 00	1308
4.77	1.68	1.65	27.55	25.00	70	30	40 00	1617
2.52	2.00	1.65	27.81	25.00	69	31	42 00	1540
4.81	1.88	1.65	27.62	25.00	73	27	36 50	1703
3.36	2.95	1.65	26.53	25.00	66	34	45 00	1548
5.26	3.86	3.70	*20.54	21.50	64	36	46 00	1280
6.93	3.92	3.70	*21.17	21.50	60	40	43 00	1570
2.78	2.55	2.47	24.43	22.88	66	34	48 00	1532
3.63	2.61	2.47	24.76	23.00	66	34	55 00	1684
5.51	3.86	-----	20.59	20.00	45	55	-----	1616
5.37	3.80	3.25	*17.48	20.00	65	35	40 00	2042
5.94	3.87	3.25	*18.30	20.00	63	38	41 75	1820
5.75	3.90	3.25	*17.41	20.00	64	36	42 00	1609
2.92	2.83	2.47	13.51	11.00	64	36	36 00	2022
2.80	2.52	2.47	28.94	22.88	62	38	40 00	2081
4.80	3.00	2.46	25.08	23.00	67	33	38 00	2062
6.37	4.30	3.71	23.83	21.00	46	54	-----	2014

*Deficient.

TABLE IV—GROUND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
	PATAPSCO GUANO COMPANY, SUBSIDI- ARY OF THE AMERICAN AGRICULTU- RAL CHEMICAL COMPANY, BALTI- MORE, MD.	
1746	PatapSCO Fine Ground Bone, -----	E. C. Thomas, Gettysburg, -----
	ROBERT A. REICHARD, ALLENTOWN, PA.	
1712	Reichard's Steamed Bone, -----	N. D. Hunsicker, Snickers, -----
	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.	
1367	Royster's Pure Raw Bone Meal, -----	Harvey Spencer, Cochranville, -----
	THE SCOTT FERTILIZER CO., ELKTON, MD.	
1357	Raw Bone Meal, -----	Edw. W. Rupert, Oxford, -----
	M. L. SHOEMAKER & CO., INC., PHILADELPHIA, PA.	
1779	Swift Sure Bone Meal, -----	Yeakel & Huzzard, Norristown, -----
	SWIFT & COMPANY, BALTIMORE, MD.	
1798	Swift's Bone Meal Fertilizer, -----	Wm. C. Ball, Media, -----
1683	Swift's Bone Meal Fertilizer, -----	G. Updegraff & Son, Williamsport, -----
1725	Swift's Bone Meal Fertilizer, -----	R. E. Weeks, Scranton, -----
2101	Swift's 2¼-29 Bone Meal Fertilizer, -----	I. M. Osborn, Kennard, -----
	JACOB TRINLEY & SONS, LINFIELD, PA.	
2025	Pure Raw Bone Meal, -----	Mowrey-Latshaw Hardware Co., Spring City.
	F. W. TUNNELL & COMPANY, INC., PHILADELPHIA, PA.	
1771	Pure Ground Bone, -----	W. B. Passmore, Embreeville, -----
	YORK CHEMICAL WORKS, YORK, PA.	
1705	Pure Ground Bone, -----	E. A. Beck, Lehighton, -----
1376	Pure Ground Bone, -----	Great Valley Mills Co., Paolet, -----
1854	Pure Ground Bone, -----	Wm. Romig, Douglassville, -----
		Average, -----

BONE FERTILIZERS—Concluded.

Moisture.	CHEMICAL ANALYSIS.				MECHANICAL ANALYSIS.		Selling price per ton at place of selection.	Chemist's number.
	NITROGEN.		PHOSPHORIC ACID.					
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Coarse.		
%	%	%	%	%	%	%	\$	
3.30	2.49	2.47	28.25	22.88	69	31	-----	1746
3.15	3.09	2.88	26.53	22.00	51	49	33 00	1712
4.68	3.95	3.70	25.07	21.50	67	33	39 00	1367
7.42	3.70	3.70	22.62	21.50	49	51	44 00	1357
3.37	4.40	4.50	25.64	21.00	75	25	55 00	1779
4.89	2.82	2.47	24.21	24.00	68	32	55 00	1798
3.00	2.58	2.47	27.36	24.00	66	34	48 00	1683
3.19	3.07	2.47	25.70	24.00	51	49	48 00	1725
2.35	2.11	1.85	29.28	29.00	78	22	42 00	2101
5.42	4.53	-----	20.29	20-22	43	57	43 00	2025
5.43	2.95	2.46	24.49	23.00	68	32	41 00	1771
3.61	2.85	2.46	25.64	23.00	68	32	39 00	1705
3.90	2.63	2.46	25.36	23.00	61	39	48 50	1376
3.26	2.69	2.46	26.40	23.00	55	45	33 78	1854
4.44	3.16	-----	23.91	-----	63	37	\$43 53	-----

TABLE V—ACIDULATED
Furnishing

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.		
1290	14% Acid Phosphate, -----	H. F. Gump & Son, Everett, -----
1884	16% Acid Phosphate, -----	Czar Beerbower, Somerfield, -----
1291	16% Acid Phosphate, -----	H. F. Gump & Son, Everett, -----
1819	16% Acid Phosphate, -----	McHenry & Masteller, Bloomsburg, -----
2027	Basic Lime Phosphate, -----	Harvey Detwiler, Chester Springs, -----
1285	Basic Lime Phosphate, -----	D. B. Griffith, Wolfsburg, -----
1946	Basic Lime Phosphate, -----	Henry Kilmer, Ephrata, -----
2007	Bowker's 16% Acid Phosphate, -----	Newton Lantz, Atglen, -----
1919	Josiah Cope's High Grade Superphosphate, -----	J. S. Hershberger, Everett, -----
1453	Josiah Cope's High Grade Superphosphate, -----	Petersburg Grain, Feed & Supply Co., Petersburg, -----
1934	W. S. Farmers' High Grade Superphosphate, -----	C. L. King, New Enterprise, -----
2190	W. S. Farmers' High Grade Superphosphate, -----	Jeremiah Thomas, Somerfield, -----
1425	Lister's Buyer's Choice Acid Phosphate, -----	B. B. Fox, Lyons Station, -----
2001	Lister's High Grade Acid Phosphate, -----	F. E. Bailey, Northbrook, -----
1918	Lister's High Grade Acid Phosphate, -----	N. H. Hollingshead, Harrisonville, -----
2106	Lister's High Grade Acid Phosphate, -----	N. J. Norton, New Albany, -----
2119	Lister's High Grade Acid Phosphate, -----	Howard Webber, Hellertown, -----
1455	Lister's Lime Phosphate, -----	Petersburg Grain, Feed & Supply Co., Petersburg, -----
1524	Ludlam's Ceerops High Grade Dissolved Phosphate, -----	Curtis Bushey, Clear Spring, -----
1283	Ludlam's Ceerops High Grade Dissolved Phosphate, -----	D. B. Griffith, Wolfsburg, -----
1404	Nassua High Grade Superphosphate, -----	H. S. Leshner, Bernville, -----
2162	Patapasco High Grade Acid Phosphate, -----	Newhard & Rohn, Easton, -----
1932	Pollock's High Grade Superphosphate, -----	J. L. Longenecker, Woodbury, -----
1850	J. E. Tygert's 16% Acid Phosphate, -----	David F. Climmer, Clayton, -----
1741	J. E. Tygert's 16% Acid Phosphate, -----	C. Travis, East Stroudsburg, -----
1422	Wheeler's High Grade Acid Phosphate, -----	H. K. & D. M. Nell, Fleetwood, -----
1311	Wheeler's Peerless Acid Phosphate, -----	W. H. Robacken, South Sterling, -----
1435	Woolridge's Florida Acid Phosphate, -----	Clarence Stump, Grimville, -----
1451	Woolridge's High Grade Acid Phosphate, -----	W. S. Baker, Alexandria, -----
1935	Woolridge's High Grade Acid Phosphate, -----	Cyrus Brumbaugh, New Enterprise, -----
1436	Woolridge's High Grade Acid Phosphate, -----	Clarence Stump, Grimeville, -----
1913	Woolridge's Lime Phosphate, -----	Geo. S. Briner, Calisle, -----
1936	Woolridge's Lime Phosphate, -----	John A. Crilly, Imbler, -----
1759	Woolridge's Lime Phosphate, -----	Strite & Eshleman, Greencastle, -----
ARMOUR FERTILIZER WORKS, BALTIMORE, MD.		
1886	Armour's Big Crop Acid Phosphate, 16%, -----	Geo. L. Moore, Brownsville, -----
BAUGH & SONS COMPANY, PHILADELPHIA, PA.		
1382	Baugh's 16% Acid Phosphate, -----	Bunting Brothers, Oxford, -----
1834	Baugh's 16% Acid Phosphate, -----	A. W. Eves, Millville, -----
1449	Baugh's 16% Acid Phosphate, -----	W. S. Henderson, Alexandria, -----
1662	Baugh's 16% Acid Phosphate, -----	King Brothers, Uniontown, -----
1294	Baugh's Lime and Phosphate, -----	E. H. Hartle, Osterburg, -----
BOWKER FERTILIZER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.		
1543	Bowker's 16% Acid Phosphate, -----	George Chichura, Olyphant, -----
1893	Bowker's 16% Acid Phosphate, -----	A. G. McClure, Burgettstown, -----
2182	Bowker's 16% Acid Phosphate, -----	W. D. Smith, Jefferson, -----

PHOSPHATE FERTILIZERS.
Phosphoric Acid.

Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	\$	
1.40	15.31	15.00	14.45	14.00	0.86	1.00	21 00	1290
1.45	18.11	17.00	17.11	16.00	1.00	1.00	22 00	1884
1.24	17.60	17.00	17.00	16.00	0.60	1.00	22 50	1291
6.85	17.35	17.00	16.03	16.00	1.32	1.00	22 00	1819
1.22	14.55	14.00	13.47	13.00	1.08	1.00	22 00	2027
1.13	14.90	14.00	13.48	13.00	1.42	1.00	19 50	1285
1.77	15.01	14.00	13.05	13.00	1.96	1.00	21 75	1946
0.97	17.93	17.00	17.21	16.00	0.72	1.00	21 00	2007
1.07	17.64	17.00	17.12	16.00	0.52	1.00	22 50	1919
1.86	18.70	17.00	17.56	16.00	1.14	1.00	22 25	1453
1.12	17.86	17.00	17.48	16.00	0.38	1.00	21 25	1934
2.97	17.17	17.00	16.27	16.00	0.90	1.00	26 00	2190
3.15	16.65	15.00	16.21	14.00	0.44	1.00	17 69	1425
1.15	17.96	17.00	17.66	16.00	0.30	1.00	20 00	2001
1.12	17.17	17.00	16.79	16.00	0.38	1.00	24 25	1918
1.72	16.90	17.00	16.70	16.00	0.20	1.00	25 00	2196
1.35	17.04	17.00	16.66	16.00	0.38	1.00	20 00	2119
2.00	15.76	14.00	13.56	13.00	2.20	1.00	22 25	1455
1.82	18.47	17.00	17.23	16.00	1.24	1.00	19 97	1524
1.32	18.19	17.00	17.61	16.00	0.58	1.00	21 00	1283
1.41	18.11	17.00	16.99	16.00	1.12	1.00	20 25	1404
1.80	18.02	17.00	16.50	16.00	1.52	1.00	19 65	2162
1.40	17.70	17.00	17.24	16.00	0.46	1.00	-----	1932
1.42	17.95	17.00	17.43	16.00	0.52	1.00	-----	1850
2.19	17.73	17.00	16.73	16.00	1.00	1.00	22 00	1741
1.74	17.76	17.00	17.40	16.00	0.36	1.00	-----	1422
3.20	15.99	15.00	15.03	14.00	0.96	1.00	32 00	1311
2.13	15.60	15.00	14.96	14.00	0.64	1.00	19 00	1435
3.24	18.28	17.00	17.22	16.00	1.06	1.00	22 50	1451
1.25	17.41	17.00	16.91	16.00	0.50	1.00	21 50	1925
1.36	17.98	17.00	17.70	16.00	0.28	1.00	20 75	1436
1.52	15.63	14.00	13.55	13.00	2.08	1.00	-----	1913
1.57	15.06	14.00	13.42	13.00	1.64	1.00	21 50	1936
1.43	15.64	14.00	13.42	13.00	2.22	1.00	21 50	1759
1.80	17.59	16.50	17.33	16.00	0.26	0.50	25 00	1886
2.63	17.97	-----	17.05	16.00	0.92	-----	20 00	1282
1.64	17.54	16.00	17.36	16.00	0.18	-----	20 00	1824
2.53	17.54	16.00	17.36	16.00	0.18	-----	22 25	1449
1.52	17.92	16.00	17.66	16.00	0.26	-----	25 00	1662
1.40	14.91	13.00	13.67	13.00	1.24	-----	22 25	1294
2.91	18.37	17.00	17.37	16.00	1.00	1.00	27 00	1510
1.02	18.23	17.00	17.25	16.00	0.98	1.00	25 00	1803
1.00	18.06	17.00	16.80	16.00	1.26	1.00	23 00	2182

*Deficient.

TABLE V—ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From—
	THE CENTRAL CHEMICAL CO., HAGERSTOWN, MD.		
1897	Gro-All 16% Dissolved Phosphate, -----		Burgettstown Feed & Supply Co., Burgettstown.
1622	Gro-All 16% Dissolved Phosphate, -----		S. K. Chambers & Brother, Elkview, --
1483	Gro-All 16% Dissolved Phosphate, -----		M. S. Haskell, Knoxville, -----
1338	Gro-All 16% Dissolved Phosphate, -----		J. B. Messersmith, Mooresburg, -----
	THE COE-MORTIMER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y.		
1490	E. Frank Coe's Basic Fruit and Legume Phosphate, -----		E. M. Day, Brookside, -----
1438	E. Frank Coe's Basic Fruit and Legume Phosphate, -----		Wilson Merkel, Klinesville, -----
1474	E. Frank Coe's 16% Superphosphate, ----		R. P. Heilman, Emporium, -----
2183	E. Frank Coe's 16% Superphosphate, ----		L. T. Laidley, Carmichaels, -----
	COLUMBIA GUANO CO., ALLIED WITH F. S. ROYSTER GUANO CO., BALTI- MORE, MD.		
2209	Columbia 16% Acid Phosphate, -----		J. E. Merideth, Towanda, -----
	DUMONT FERTILIZER CO., PHILADEL- PHIA, PA.		
2138	Dumont's 16% Acid Phosphate, -----		E. J. Houck, Bangor, -----
	THE EGGERT CHEMICAL CO., CON- TON, OHIO.		
1967	Eggert's Acid Phosphate 16%, -----		E. H. Hays, Clintondale, -----
	THE FARMERS FERTILIZER WORKS, ELIZABETHTOWN PA.		
1866	Acid Phosphate 14%, -----		J. H. Heterich, Palmyra, -----
1335	Acid Phosphate 16%, -----		Farmers Co-operative Association, Lewis- town.
	GRIFFITH & BOYD CO., BALTIMORE, MD.		
1411	Griffith & Boyd Co's High Grade 16% Acid Phosphate, -----		Morris C. Bohn, Bernville, -----
1443	Griffith & Boyd Co's High Grade 16% Acid Phosphate, -----		C. A. Geist, Tyrone, -----
1697	Griffith & Boyd Co's High Grade 16% Acid Phosphate, -----		J. F. Hogsett & Sons, Uniontown, ----
1608	Griffith & Boyd Co's High Grade 16% Acid Phosphate, -----		Garfield Milhous, Mendenhall, -----
	S. M. HESS & BROTHER, INC., SUBSI- DIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL CO., NEW YORK, N. Y.		
1469	High Grade Acid Phosphate, -----		H. D. Wiest, Bernville, -----
1699	Processed Phospho Lime, -----		Edward Pittery, Lebanon, -----
1787	Processed Phospho Lime, -----		J. M. Hildebeital, Green Lane, -----
1715	Processed Phospho Lime, -----		Daniel Kimmel, Hegins, -----
2198	Special High Grade Acid Phosphate, ----		H. G. Wright, Canton, -----
	THE HUBBARD FERTILIZER CO., BALTIMORE, MD.		
2165	Hubbard's 16% Phosphate, -----		H. B. Low & Son, Orangeville, -----
	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA.		
1813	Keystone 16% Acid Phosphate, -----		E. A. Slagle, Paxinos, -----

PHOSPHATE FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	\$	
1.00	18.00	16.50	17.32	16.00	0.68	0.50	23 00	1897
1.29	17.82	16.50	17.32	16.00	0.50	0.50	20 00	1622
2.01	18.48	-----	17.86	16.00	0.62	-----	24 00	1483
2.47	16.98	-----	16.56	16.00	0.42	-----	23 50	1338
1.88	15.48	14.00	13.44	13.00	2.04	1.00	23 50	1490
1.54	15.93	14.00	14.91	13.00	1.02	1.00	19 25	1428
1.38	17.73	17.00	17.39	16.00	0.34	1.00	26 60	1474
1.02	17.87	17.00	16.37	16.00	1.50	1.00	23 00	2183
2.67	17.12	16.50	16.98	16.00	0.14	0.50	24 00	2209
3 10	17.97	-----	17.85	16.00	0.12	-----	21 50	2138
1.47	18.24	-----	17.38	16.00	0.86	-----	18 65	1967
2.08	15.68	15.00	15.57	14.00	0.11	1.00	20 00	1896
9.06	17.45	17.00	17.41	16.00	0.04	1.00	35 20	1335
1.23	17.78	17.00	16.60	16.00	1.18	1.00	20 00	1411
3.49	15.42	17.00	17.12	16.00	1.30	1.00	20 75	1443
1.64	18.39	17.00	17.79	16.00	0.60	1.00	25 00	1607
1.55	17.83	17.00	17.13	16.00	0.70	1.00	21 00	1608
1.47	16.24	15.00	15.48	14.00	0.76	1.00	-----	1409
2.28	14.31	14.00	13.39	13.00	0.92	1.00	24 00	1399
1.25	15.24	14.00	13.92	13.00	1.32	1.00	24 00	1787
1.50	14.76	14.00	13.92	13.00	1.44	1.00	32 00	1595
2.12	17.46	17.00	16.12	16.00	1.34	1.00	20 00	2193
1.06	17.42	-----	16.84	16.00	0.58	-----	21 00	2165
1.78	17.51	17.00	17.31	16.00	0.20	1.00	23 00	1813

TABLE V--ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.		Sample Taken From--	
	THE KEYSTONE GRANGE EXCHANGE, MANSFIELD, PA.			
1313	Granger's Acid Phosphate, -----		G. B. Correll, Newfoundland, -----	
1538	Granger's Acid Phosphate, -----		C. E. Gautzbine, Tannersville, -----	
1966	Granger's Acid Phosphate, -----		M. G. Gingrich, Lebanon, -----	
	LANCASTER BONE FERTILIZER COM- PANY, LANCASTER, PA.			
1556	Grange Special, -----		C. F. Fendrich, Mercersburg, -----	
	LANCASTER CHEMICAL COMPANY, LANCASTER, PA.			
1943	No. 16 Phosphoric Acid Special, -----		C. S. Zimmerman, Bismark, -----	
	LEBANON FERTILIZER WORKS, LEBANON, PA.			
1858	Levan's Super-Phosphate, -----		J. M. Groh, Lieddale, -----	
1902	Levan's Super-Phosphate, -----		Moses K. Horst, Scotland, -----	
1494	Levan's Super-Phosphate, -----		Solomon & Waltz, Antes Fort, -----	
	FRED E. LORD, ESPY, PA.			
2173	Acid Phosphate, -----		Fred E. Lord, Espy, -----	
	THE MARTIN FERTILIZER CO., PHILADELPHIA, PA.			
1369	Bull Head Brand Acid Phosphate, -----		Harvey G. Shortlidge, Kelton, -----	
	THE MILLER FERTILIZER COMPANY, BALTIMORE, MD.			
1352	Acid Phosphate 16%, -----		Hartley & Blaine, Turbotville, -----	
1685	Acid Phosphate 16%, -----		Herman Keebler, Montoursville, -----	
1962	Acid Phosphate 16%, -----		State Insane Asylum, Wernersville, -----	
	NITRATE AGENCIES COMPANY, NEW YORK, N. Y.			
1327	High Grade Acid Phosphate, -----		G. A. Spencer, Waverly, -----	
	GOBER & SONS COMPANY, BALTIMORE, MD.			
1744	Ober's High Grade Acid Phosphate, -----		D. Blocher & Co., Gettysburg, -----	
1682	Ober's High Grade Acid Phosphate, -----		G. H. DeFrain, Gettysburg, -----	
2107	Ober's High Grade Acid Phosphate, -----		J. Geo. McCanlis, Edensburg, -----	
2617	Ober's Lime Phosphate, -----		D. E. Wagenseller, Supplee, -----	
	PATAPSCO GUANO COMPANY, SUBSI- DIARY OF THE AMERICAN AGRICUL- TURAL CHEMICAL COMPANY, BALTI- MORE, MD.			
1899	Patapseo High Grade Acid Phosphate, -----		Denny & Apison, Hickory, -----	
1410	Patapseo High Grade Acid Phosphate, -----		Fred D. Mick, Cresco, -----	
	PATUXENT GUANO COMPANY, BALTI- MORE, MD.			
1344	Patuxent High Grade Acid Phosphate, -----		H. J. Linder, Potts Grove, -----	
1757	Patuxent High Grade Acid Phosphate, -----		A. J. Snyder, Greencastle, -----	
1242	Patuxent Lime Phosphate, -----		H. J. Linder, Potts Grove, -----	
1343	Patuxent Pure Dissolved South Carolina Phosphate, -----		H. J. Linder, Potts Grove, -----	
	PIEDMONT MT. AIRY GUANO CO., BAL- TIMORE, MD.			
1373	Piedmont 16% Acid Phosphate, -----		Keystone Tractor & Implement Co., Palmyra, -----	
	RASIN-MONUMENTAL CO., SUBSIDIARY OF THE VIRGINIA-CAROLINA CHEM- ICAL CO., BALTIMORE, MD.			
1634	Rasin's 16% Acid Phosphate, -----		Albright & Schroyer, Kempton, -----	

PHOSPHATE FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	\$	
1.35	18.34	16.00	16.88	16.00	1.46	-----	25 00	1313
4.24	17.99	16.00	17.85	16.00	0.14	-----	20 00	1538
0.95	18.04	16.00	17.10	16.00	0.94	-----	19 32	1906
1.99	16.97	17.00	16.85	16.00	0.12	1.00	19 75	1556
2.30	17.45	-----	17.07	16.00	0.38	1.00	19 75	1943
1.69	16.85	17.00	16.69	16.00	0.16	1.00	24 00	1858
3.02	17.92	17.00	17.80	16.00	0.12	1.00	18 70	1902
4.20	17.86	17.00	17.82	16.00	0.04	1.00	20 50	1494
1.25	18.16	16.50	17.08	16.00	1.08	0.50	19 00	2173
2.75	18.34	-----	17.34	16.00	1.00	-----	20 00	1369
2.28	18.59	-----	17.49	16.00	1.10	0.50	21 38	1352
1.36	18.05	-----	16.99	16.00	1.06	0.50	23 00	1685
1.27	17.92	-----	16.64	16.00	1.28	0.50	-----	1962
3.60	17.60	17.00	17.46	16.00	0.14	1.00	24 00	1327
6.44	17.13	17.00	17.05	16.00	0.08	1.00	22.00	1744
4.77	17.73	17.00	17.49	16.00	0.24	1.00	21 50	1682
3.15	18.14	17.00	18.06	16.00	0.08	1.00	20 00	2107
1.85	15.43	14.00	14.29	13.00	1.14	1.00	-----	2017
1.02	17.46	17.00	17.02	16.00	0.44	1.00	26 00	1890
2.94	18.26	17.00	17.08	16.00	1.28	1.00	28 00	1310
8.18	16.71	16.50	16.37	16.00	0.34	0.50	20 58	1344
5.22	18.69	17.00	18.63	16.00	0.06	1.00	19 50	1757
5.10	14.16	14.00	13.01	13.00	1.15	1.00	20 58	1342
1.86	16.50	-----	16.34	14.00	0.16	1.00	19 08	1343
4.52	17.99	-----	16.69	16.00	1.30	-----	21 00	1973
1.15	19.20	17.00	17.64	16.00	1.56	1.00	20 00	1634

TABLE V—ACIDULATED

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1363	Rasin's 16% Acid Phosphate, -----	El. H. Keen & Son, Parkesburg, -----
1649	Rasin's Phospho Tobacco, -----	S. H. Donkel, Myerstown, -----
2168	Rasin's Phospho Tobacco, -----	H. B. Low & Son, Orangeville, -----
	READING BONE FERTILIZER CO., READING, PA.	
2068	16% Clear Acid Phosphate, -----	John M. Good, Pine Grove, -----
1747	16% Clear Acid Phosphate, -----	A. F. Hobbs, LaPlume, -----
1269	16% Clear Acid Phosphate, -----	Isaac H. Leshner, Bernville, -----
1337	16% Clear Acid Phosphate, -----	W. M. Simington, Potts Grove, -----
	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD.	
1885	Royster's 14% Acid Phosphate, -----	Cl. B. Chamberlain, Brownville, -----
1554	Royster's 14% Acid Phosphate, -----	Huston Brothers, Three Springs, -----
1319	Royster's 16% Acid Phosphate, -----	W. Headly, Waymarth, -----
2005	Royster's 16% Acid Phosphate, -----	W. H. Humphry, Portersville, -----
1555	Royster's 16% Acid Phosphate, -----	Huston Brothers, Three Springs, -----
1826	Royster's 16% Acid Phosphate, -----	J. M. Rider, Millville, -----
	THE SCOTT FERTILIZER CO., ELK- TON, MD.	
1361	Scott's Tip Top Soluble Phosphate, -----	Edw. W. Rupert, Oxford, -----
	SWIFT & COMPANY, BALTIMORE, MD.	
2199	Swift's High Grade Acid Phosphate Fer- tilizer, -----	T. Bender & Son, Muncy Valley, -----
1506	Swift's High Grade Acid Phosphate Fer- tilizer, -----	D. L. Hertzler, Mechanicsburg, -----
2099	Swift's High Grade Acid Phosphate Fer- tilizer, -----	I. M. Osborn, Kennard, -----
1573	Swift's High Grade Acid Phosphate Fer- tilizer, -----	Pomona No. 3 Grange Exchange, West Chester.
	I. P. THOMAS & SON CO., PHILADEL- PHIA, PA.	
1848	16% Acid Phosphate, -----	C. S. Davidheiser, Gilbertsville, -----
2189	16% Acid Phosphate, -----	A. M. Frederick, Fairchance, -----
1661	16% Acid Phosphate, -----	King Brothers, Uniontown, -----
1554	16% Acid Phosphate, -----	F. E. Martz, Washingtonville, -----
	UNITED STATES GUANO COMPANY, BALTIMORE, MD.	
1869	Standard United States Extra High Grade 16% Acid Phosphate, -----	M. M. Cassel, Manheim, -----
1293	Standard United States Extra High Grade 16% Acid Phosphate, -----	Schellsburg Grange, Schellsburg, -----
	VIRGINIA-CAROLINA CHEMICAL CO., OF DELAWARE, BALTIMORE, MD.	
1281	V. C. 14% Acid Phosphate, -----	Lawrence Schaffer, Tulphocken, -----
1304	V. C. 16% Acid Phosphate, -----	Blair Knisely, Reynolds Dale, -----
1278	V. C. 16% Acid Phosphate, -----	Lawrence Schaffer, Tulpesocken, -----
	WASHINGTON, ALEXANDER & COOKE CO., AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL CO., CHARLES TOWN, W. VA.	
2031	Wacco Acid Phosphate, -----	Quarryville Farmers Association, Quarry- ville.
1900	Wacco Superphosphate, -----	Quarryville Farmers Association, Quarry- ville.

PHOSPHATE FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	\$	
1.00	19.20	17.00	17.52	16.00	1.68	1.00	20 00	1363
2.72	16.26	14.00	14.42	13.00	1.84	1.00	21 00	1649
2.22	17.17	14.00	15.17	13.00	2.00	1.00	21 00	2168
1.17	18.00	17.00	17.28	16.00	0.72	1.00	21 50	2068
1.62	19.26	17.00	18.36	16.00	0.90	1.00	30 00	1727
2.19	18.42	17.00	17.72	16.00	0.70	1.00	19 75	1260
8.84	16.97	17.00	15.89	16.00	1.08	1.00	18 37	1337
1.40	16.23	14.50	14.89	14.00	1.34	0.50	27 00	1885
1.70	15.37	14.50	14.07	14.00	1.30	0.50	23 25	1554
3.48	18.09	16.50	17.19	16.00	0.90	0.50	26.00	1319
1.75	17.91	16.50	17.63	16.00	0.28	0.50	21 50	2005
3.26	17.99	16.50	17.81	16.00	0.18	0.50	24 50	1555
1.74	17.86	16.50	17.60	16.00	0.26	0.50	20 85	1826
1.71	18.50	-----	17.08	16.00	1.42	-----	20 00	1361
1.05	18.74	16.00	17.86	16.00	0.88	-----	25 00	2199
1.87	17.75	16.00	16.31	16.00	1.44	-----	20 00	1506
1.80	17.41	-----	17.27	16.00	0.14	-----	22 50	2099
1.92	18.44	-----	17.06	16.00	1.38	-----	19 00	1373
3.16	17.92	16.50	17.72	16.00	0.20	0.50	20 00	1848
5.75	17.50	16.50	17.34	16.00	0.16	0.50	22 00	2180
3.50	17.48	16.50	17.36	16.00	0.12	0.50	25 00	1661
2.73	18.37	16.50	18.11	16.00	0.26	0.50	20 50	1354
5.00	18.88	16.50	18.75	16.00	0.13	0.50	-----	1860
1.13	18.24	16.50	18.00	16.00	0.24	0.50	17 00	1293
1.00	16.71	15.00	15.15	14.00	1.56	1.00	19 25	1281
0.99	19.20	17.00	17.58	16.00	1.62	1.00	22 00	1304
1.13	19.39	17.00	17.75	16.00	1.64	1.00	21 00	1278
1.35	14.81	-----	14.67	14.00	0.14	-----	18 50	2031
2.37	16.55	-----	16.39	16.00	0.16	-----	20 00	1999

TABLE V—ACIDULATED

Chemist No.	Name of Manufacturer and Brand.		Sample Taken From—	
	YORK CHEMICAL WORKS, YORK, PA.			
2181	16%	Acid Psophate, -----	O. A. Acklin, Waynesburg, -----	
1445	16%	Acid Phosphate, -----	Farmers Co-operative Association, State College.	
1322	16%	Acid Phosphate, -----	Hull Brothers, Waymarth, -----	
1651	16%	Acid Phosphate, -----	Kimmershings Grange, Lebanon, -----	
1610	16%	Acid Phosphate, -----	Harry Pyle & Son, Chadds Ford Junction.	
			Average, -----	

PHOSPHATE FERTILIZERS—Concluded.

Moisture.	PHOSPHORIC ACID.						Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
%	%	%	%	%	%	%	\$	
1.50	17.17	16.00	16.87	16.00	0.30	-----	24 00	2181
2.77	16.82	16.00	16.70	16.00	0.12	-----	18 50	1445
4.37	18.00	16.00	17.82	16.00	0.18	-----	25 00	1322
3.35	17.26	16.00	17.18	16.00	0.08	-----	18 97	1651
1.92	18.43	16.00	18.27	16.00	0.16	-----	22 00	1610
2.29	17.38	-----	16.60	-----	0.78	-----	22 07	-----

TABLE VI.—ROCK AND
Furnishing Phosphoric

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
<p>THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.</p>		
1988	Big Crop Phosphate, -----	John Greenleaf, Quarryville, -----
2059	Bowker's Great Crop, -----	Alvin Fritz, Mahanoy City, -----
1593	Bowker's Super Phosphate with Potash, --	Geo. Maurer, Pitman, -----
1663	Bradley's Phosphate and Potash, -----	King Brothers, Uniontown, -----
2040	Josiah Cope's Soluble Phosphate and Potash, -----	Jones Eavenson, Christiana, -----
2038	Josiah Cope's Universal Mixture, -----	Jones Eavenson, Christiana, -----
1991	Dissolved Phosphate and Potash, -----	John Greenleaf, Quarryville, -----
1292	Gem Alkaline Phosphate, -----	H. F. Gump & Son, Everett, -----
2163	Great Crop Grower, -----	Newhard & Rohn, Easton, -----
1546	Lister's Grain and Grass Fertilizer Revised, -----	W. McLain, Moscow, -----
2118	Lister's Potash Mixture, -----	Howard Webber, Hellertown, -----
1511	Ludlam's Cereops I. X. L. Brand, -----	Louis Bentz, Wellsville, -----
1284	Ludlam's Cereops Phosphate and Potash, -----	D. B. Griffith, Wolfsburg, -----
1534	Nassau Grass and Grain Fertilizer, -----	A. A. Chamberlain, Gouldsboro, -----
1942	Nassau Royal Mixture, -----	J. L. Graybill, Manheim, -----
2003	Star Phosphate, -----	W. H. Kuhn, Carns City, -----
1987	Three Star Phosphate and Potash, -----	John Greenleaf, Quarryville, -----
1903	Victory Phosphate and Potash, -----	John Greenleaf, Quarryville, -----
1421	Wheeler's Wheat and Clover Fertilizer, --	H. K. & D. M. Nell Fleetwood, -----
1450	Woodridge's American Potash Mixture, --	W. S. Baker, Alexandria, -----
1758	Woodridge's Grain and Grass Producer, --	Strite & Eshleman, Greencastle, -----
1517	Woodridge's Grain and Grass Producer, --	Robert Wentz, Wellsville, -----
<p>ARMOUR FERTILIZER WORKS, BALTIMORE, MD.</p>		
1345	Armour's Big Crop Fertilizer 9-10-5, -----	Willis Koch, Potts Grove, -----
1495	Armour's Phosphate and Potash No. 1, --	W. N. Brosna, Autes Fort, -----
1887	Armour's Phosphate and Potash No. 1, --	Geo. L. Moore, Brownsville, -----
1933	Armour's Phosphate and Potash No. 1, --	Levi Stuckey, New Enterprise, -----
<p>BAUGH & SONS COMPANY, PHILADELPHIA, PA.</p>		
1420	Baugh's Phosphate and Potash Mixture, (10-4), -----	Clarence Shellenberger, Fleetwood, -----
1835	Baugh's Phosphate and Potash Mixture, (12-5), -----	A. W. Eves, Millville, -----
1762	Baugh's Phosphate and Potash Mixture, (12-5), -----	C. F. Fendrich, Mercersburg, -----
2185	Baugh's Soluble Alkaline Super-Phosphate, -----	J. G. Cover, Masontown, -----
2073	Baugh's Soluble Alkaline Super-Phosphate, -----	Thomas Garrison, Berwick, -----
1660	Baugh's Soluble Alkaline Super-Phosphate, -----	King Brothers, Uniontown, -----
<p>BOWKER FERTILIZER COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.</p>		
1468	Bowker's Phosphate and Potash, -----	Emporium Supply Co., Emporium, -----
1307	Bowker's Superphosphate with Potash, --	E. Coble & Sons, Moscow, -----
<p>THE CENTRAL CHEMICAL CO., HAGERSTOWN, MD.</p>		
1756	Gro-All Commonwealth, -----	J. W. Hartman, Greencastle, -----
1893	Gro-All Pennsylvania Special, -----	N. G. Adams, Paxinos, -----
1158	Gro-All Pioneer, -----	Frank Oburn, McAlvyns Fort, -----
1288	Gro-All Potash Special, -----	Francis Baker, Everett, -----
<p>THE COE-MORTIMER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL COMPANY, NEW YORK, N. Y.</p>		
2111	E. Frank Coe's Big 15 Mixture, -----	H. D. Minnich, Emaus, -----
1492	E. Frank Coe's Famous Prize Brand, -----	E. M. Day, Brookside, -----

POTASH FERTILIZERS.

Acid and Potash

Moisture.	PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as Muriate.	Present as Sulphate.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	\$		
2.37	8.95	9.00	8.29	8.00	0.66	1.00	5.24	5.00	5.24	-----	30 00	1988
0.85	9.02	9.00	8.38	8.60	6.64	1.00	5.20	5.00	5.20	-----	33 00	2059
3.92	11.54	11.00	10.90	10.00	0.64	1.00	2.40	2.00	2.40	-----	27 00	1593
3.70	12.40	11.00	11.22	10.00	1.18	1.00	21.56	2.00	2.36	-----	32 00	1663
1.92	11.56	11.00	10.52	10.00	1.04	1.00	2.38	2.00	2.38	-----	27 00	20.0
1.18	9.27	9.00	8.31	8.00	0.96	1.00	5.34	5.00	5.34	-----	30 00	2038
2.70	11.16	11.00	10.52	10.00	0.64	1.00	2.40	2.00	2.40	-----	26 50	1991
1.10	7.37	7.00	6.63	6.00	0.74	1.00	3.20	3.00	3.20	-----	29 00	1782
2.90	10.42	9.00	9.06	8.00	1.36	1.00	*4.62	5.00	4.62	-----	27 00	2163
7.27	11.44	11.00	11.04	10.00	0.40	1.00	2.08	2.00	2.08	-----	30 00	1546
1.52	10.18	9.00	8.92	8.00	1.26	1.00	5.00	5.00	5.00	-----	28 35	2118
1.69	9.63	9.00	8.93	8.00	0.70	1.00	5.60	5.00	5.60	-----	-----	1511
3.37	11.99	11.00	10.91	10.00	1.08	1.00	2.15	2.00	2.15	-----	26 00	1284
4.87	11.52	11.00	10.64	10.00	0.88	1.00	2.31	2.50	2.31	-----	38 50	1534
2.45	9.31	9.00	8.59	8.00	0.72	1.00	5.00	5.00	5.00	-----	-----	1942
1.80	9.76	9.00	8.81	8.00	0.94	1.00	3.13	3.00	3.13	-----	31 00	2093
2.45	11.60	11.00	10.76	10.00	0.84	1.00	4.26	4.00	4.26	-----	29 00	1987
4.95	13.09	13.00	12.03	12.00	1.06	1.00	5.09	5.00	5.09	-----	31 00	1993
4.65	11.45	11.00	10.81	10.00	0.64	1.00	2.26	2.00	2.26	-----	-----	1421
5.59	11.86	11.00	11.12	10.00	0.74	1.00	2.64	2.00	2.64	-----	-----	1450
3.39	11.23	11.00	10.69	10.00	0.54	1.00	4.02	4.00	4.02	-----	29 75	1758
2.80	11.23	11.00	10.65	10.00	0.58	1.00	4.72	4.00	4.72	-----	-----	1517
8.02	10.88	10.50	10.26	10.00	0.62	0.50	4.93	5.00	4.93	-----	31 25	1345
4.33	11.32	10.50	10.64	10.00	0.68	0.50	2.11	2.00	2.11	-----	30 00	1495
3.12	11.21	10.50	11.01	10.00	0.20	0.50	2.31	2.00	2.31	-----	33 00	1887
0.97	11.01	10.50	10.73	10.00	0.28	0.50	2.37	2.00	2.37	-----	22 00	1933
5.09	10.84	10.00	10.12	10.00	0.72	-----	4.19	4.00	4.19	-----	26 31	1420
3.23	13.00	12.00	12.18	12.00	0.82	-----	5.55	5.00	5.55	-----	32 60	1835
6.40	12.31	12.00	*11.41	12.00	0.90	-----	5.59	5.00	5.59	-----	31 00	1762
1.25	10.82	10.00	9.92	10.00	0.90	-----	2.59	2.00	2.59	-----	33 00	2185
1.82	11.47	10.00	10.51	10.00	0.96	-----	2.54	2.00	2.54	-----	27 50	2073
2.75	10.72	10.00	9.92	10.00	0.80	-----	2.36	2.00	2.36	-----	35.00	1660
1.42	10.16	9.00	8.94	8.00	1.22	1.00	3.75	3.00	3.35	-----	37 00	1468
5.28	11.99	11.00	10.89	10.00	1.10	1.00	2.11	2.00	2.11	-----	33 25	1307
4.70	10.01	10.50	*0.53	10.00	0.48	0.50	2.28	2.00	2.28	-----	27 00	1756
3.22	11.80	10.50	10.84	10.00	0.96	0.50	4.66	4.00	4.66	-----	31 00	1806
4.90	9.03	8.50	8.73	8.00	0.50	0.50	5.12	5.00	5.12	-----	29 00	1458
4.24	13.60	12.50	13.18	12.00	0.42	0.50	5.88	5.00	5.88	-----	34 00	1288
3.02	13.56	13.00	12.72	12.00	0.84	1.00	2.89	3.00	2.89	-----	30 00	2141
3.62	11.16	11.00	10.60	10.00	0.56	1.00	2.14	2.00	2.14	-----	29 50	1492

*Deficient.

TABLE VI.—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1689	THE CONSUMERS CHEMICAL CORPORATION, AFFILIATED WITH VIRGINIA-CAROLINA CHEMICAL COMPANY, NEW YORK, N. Y. Alkaline Phosphate, -----	McConnell Brothers, Hughesville, -----
1334	THE FARMERS FERTILIZER WORKS, ELIZABETHTOWN, PA. Farmers Economy, -----	Farmers Co-operative Association, Lewistown.
1417	GRIFFITH & BOYD CO., BALTIMORE, MD.	Samuel B. Fox, Fleetwood, -----
1926	Griffith & Boyd Co.'s Special Grain Grower,	G. R. Lutz, Lutzville, -----
1415	Griffith & Boyd Co.'s XX Potash Manure,	Morris C. Bohn, Bernville, -----
1484	Griffith & Boyd Co.'s XX Potash Manure,	Farmers Cooperative Union, Nelson, -----
1927	S. M. HESS & BROTHER, INC., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y.	F. R. Reighard, Bedford, -----
2080	Soluble Phosphate and Potash, -----	C. L. Tressler, Conyngham, -----
2034	THE HUBBARD FERTILIZER COMPANY, BALTIMORE, MD.	E. B. Fritz & Son, Quarryville, -----
2164	Hubbard's High Grade Potash Mixture, --	H. B. Low & Son, Orangeville, -----
2035	Hubbard's Phosphate and Potash, -----	E. B. Fritz & Son, Quarryville, -----
1571	Hubbard's Phosphate and Potash, -----	Shippensburg Warehouse Co., Shippensburg.
1965	THE KEYSTONE GRANGE EXCHANGE, MANSFIELD, PA.	M. G. Gingrich, Lebanon, -----
1731	Granger's Special, -----	Pocono Grange, Tannersville, -----
1736	Granger's Special, -----	Pocono Grange, Tannersville, -----
2036	LANCASTER BONE FERTILIZER COMPANY, LANCASTER, PA. Harvest King, -----	E. B. Fritz & Son, Quarryville, -----
1900	LEBANON FERTILIZER WORKS, LEBANON, PA.	Moses K. Horst, Scotland, -----
1406	Levan's Standard Potash Compound 0-12-4,	C. J. Pottelger, Bernville, -----
1638	Levan's Standard Potash Compound 0-12-4,	A. D. Trexler Sons, Trexler, -----
2171	FRED E. LORD, ESPY, PA. Columbia Fall Special, -----	Fred E. Lord, Espy, -----
1686	THE MILLER FERTILIZER COMPANY, BALTIMORE, MD.	Herman Keebler, Montoursville, -----
1632	Miller's 4% Alkaline, -----	Albright & Schwoyer, Kempton, -----
1350	Miller's Clinch Phosphate, -----	Hartley & Blaine, Turbotville, -----
1695	G. OBER & SONS COMPANY, BALTIMORE, MD.	Glossner Implement Co., Lock Haven, --
1742	Ober's 10% Super Phosphate and Potash,	J. S. Stevenson, Waynesboro, -----
1447	PATAPSCO GUANO COMPANY, SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, BALTIMORE, MD. Patapsco Alkaline Mixture, -----	F. P. Waite, Tyrone, -----

POTASH FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate	Present as sulphate.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	\$	
10.22	13.94	13.00	13.10	12.00	0.84	1.00	*4.53	5.00	4.53	-----	35 00	1689
6.94	11.14	11.00	10.66	10.00	0.48	1.00	3.17	3.00	3.17	-----	23 82	1334
3.92	12.24	11.00	11.20	10.00	1.04	1.00	2.65	2.00	2.65	-----	26 00	1417
2.70	12.56	11.00	11.34	10.00	1.22	1.00	2.39	2.00	2.39	-----	26 00	1926
4.05	12.06	11.00	11.04	10.00	1.02	1.00	5.23	5.00	5.23	-----	32 75	1415
4.08	12.41	-----	10.79	10.00	1.62	-----	6.37	5.00	6.37	-----	41 00	1484
2.92	11.98	11.00	10.92	10.00	1.06	1.00	2.12	2.00	2.12	-----	27 00	1927
2.10	10.10	9.00	8.82	8.00	1.28	1.00	*4.52	5.00	4.52	-----	23 25	2080
1.60	12.43	11.00	11.55	10.00	0.88	1.00	4.17	4.00	4.17	-----	25 00	2034
3.00	12.25	11.00	11.55	10.00	0.70	1.00	4.45	4.00	4.45	-----	30 00	2164
2.22	12.06	11.00	11.36	10.00	0.70	1.00	2.22	2.00	2.22	-----	2035	
4.11	11.86	11.00	11.10	10.00	0.76	1.00	2.15	2.00	2.15	-----	24 25	1571
2.27	10.58	10.50	10.02	10.00	0.56	0.50	2.23	2.00	2.23	-----	26 32	1965
5.97	9.95	10.50	*9.47	10.00	0.48	0.50	3.85	2.00	3.85	-----	30 00	1731
3.97	13.26	12.50	12.66	12.00	0.60	0.50	5.20	5.00	5.20	-----	50 00	1736
1.75	10.74	11.00	10.48	10.00	0.26	1.00	4.11	4.00	3.30	0.81	25 00	2036
2.71	13.67	13.00	13.25	12.00	0.42	1.00	4.89	4.00	4.89	-----	28 00	1900
3.19	12.79	13.00	12.49	12.00	0.30	1.00	4.24	4.00	4.24	-----	30 00	1406
3.65	12.70	13.00	12.36	12.00	0.34	1.00	4.39	4.00	4.39	-----	1638	
1.00	13.93	12.50	12.69	12.00	1.24	0.50	5.18	5.00	5.18	-----	25 00	2171
3.74	11.94	-----	11.08	10.00	0.86	-----	4.67	4.00	4.67	-----	33 00	1686
2.84	11.36	-----	10.72	10.00	0.64	0.50	2.06	2.00	2.06	-----	25 75	1632
4.72	11.36	-----	10.64	10.00	0.72	0.50	2.32	2.00	2.32	-----	28 50	1350
3.25	12.05	11.00	11.47	10.00	0.58	1.00	2.37	2.00	2.37	-----	32 50	1695
3.32	12.63	-----	11.83	10.00	0.80	-----	2.37	2.00	2.37	-----	28 00	1742
1.74	9.42	9.00	8.38	8.00	1.04	1.00	5.71	5.00	5.71	-----	30 50	1447

*Deficient.

TABLE VI.—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1341	PATUXENT GUANO COMPANY, BALTIMORE, MD. Alsatian Potash Mixture, -----	H. J. Linder, Potts Grove, -----
1754	PIEDMONT MT. AIRY GUANO CO., BALTIMORE, MD. Piedmont Acidulated Phosphate and Potash, -----	Omwake Brothers, Greencastle, -----
1459	Piedmont I. X. L. Crop Grower, -----	John G. Simpson, Huntingdon, -----
2167	RASIN-MONUMENTAL COMPANY, SUB- SIDIARY OF THE VIRGINIA-CAROLINA CHEMICAL CO., BALTIMORE, MD. Rasin's Phosphate and Potash Fertilizer, -----	H. B. Low & Son, Orangeville, -----
1362	Rasin's Special Potash Mixture, -----	E. H. Keen & Son, Parkesburg, -----
1434	READING BONE FERTILIZER CO., READING, PA. Economy Brand, -----	Phaon Heffner, Kutztown, -----
2125	Economy Brand, -----	Gordon Kiehline, Bangor, -----
1527	READING CHEMICAL CO., READING, PA. Reading Crop Producer, -----	C. Gumare, Factoryville, -----
2157	ROBERT A. REICHARD, ALLENTOWN, PA. Reichards Farmers Favorite, -----	Tilden E. Kuhns, Alburtis, -----
2127	F. S. ROYSTER GUANO COMPANY, BAL- TIMORE, MD. Royster's 8-5 Phosphate and Potash, -----	Charles Wilhelm, Bethlehem, -----
1827	Royster's 10-2 Phosphate and Potash, -----	J. M. Rider, Millville, -----
2083	Royster's 12-5 Phosphate and Potash, -----	W. T. Roth, Conyngham, -----
2111	THE SCOTT FERTILIZER CO., ELK- TON, MD. Scott's Soluble Phosphate and Potash, -----	M. L. Rosenberger, Quakertown, -----
1499	SWIFT & COMPANY, BALTIMORE, MD. Swift's Farmers Home 0-10-4, -----	D. L. Hertzler, Mechanicsburg, -----
1863	Swift's Special High Grade Phosphate and Potash, -----	Maurice Flickinger, Lebanon, -----
1860	Swift's Special Phosphate and Potash, -----	Maurice Flickinger, Lebanon, -----
1821	I. P. THOMAS & SON CO., PHILADEL- PHIA, PA. Alkaline Fertilizer 0-10-2, -----	Geo. B. Kase, Danville, -----
1561	Alkaline Fertilizer 0-10-2, -----	Walker, Diehl & Walker, Richmond Fur- nace.
2208	Alkaline Fertilizer 0-10-2, -----	A. E. Woodruff & Son, Wysox, -----
1621	Special Alkaline 0-12-3, -----	Theo. M. Griffith & Son, Downingtown, -----
1355	Special Alkaline 0-12-3, -----	F. E. Martz, Washingtonville, -----
1266	VIRGINIA-CAROLINA CHEMICAL CO., OF DELAWARE, BALTIMORE, MD. V. C. Special Phosphate and Potash, -----	Lawrence Schaffer, Tulpehocken, -----
1386	V. C. Standard Phosphate and Potash, -----	Lawrence Schaffer, Tulpehocken, -----
1507	WASHINGTON, ALEXANDER & COOKE CO., AFFILIATED WITH VIRGINIA- CAROLINA CHEMICAL CO., CHARLES TOWN, W. VA. Wacco Double Potash Compound, -----	Geo. P. Livingston, East Berlin, -----
1750	Wacco Special Potash Mixture, -----	E. S. Kelly, Gettysburg, -----
1503	Wacco Special Potash Mixture, -----	Geo. P. Livingston, East Berlin, -----
1998	Wacco Special Potash Mixture, -----	Quarryville Farmers Association, Quarry- ville.

POTASH FERTILIZERS—Continued.

Moisture.	PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
	Found.	Guaranteed.	Found.	Found.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	\$	
6.49	9.90	9.00	9.06	8.00	0.84	1.00	5.00	5.00	5.00	-----	28 58	1341
1.80	11.82	-----	10.94	10.00	0.88	-----	*1.66	2.00	1.66	-----	26 00	1754
3.70	9.12	-----	*8.72	10.00	0.40	-----	2.98	3.00	2.98	-----	30.00	1450
1.47	11.26	11.00	*9.80	10.00	1.46	1.00	2.07	1.00	2.07	-----	28 50	2167
4.56	10.13	9.00	8.87	8.00	1.26	1.00	5.28	5.00	5.28	-----	29 50	1362
6.91	10.90	11.00	10.36	10.00	0.54	1.00	3.83	4.00	3.83	-----	30 50	1434
2.52	10.87	11.00	10.15	10.00	0.72	1.00	4.44	4.00	4.44	-----	30 25	2125
6.82	9.27	-----	8.45	8.00	0.82	-----	5.77	5.00	5.77	-----	47 00	1527
1.17	9.02	9.00	8.68	8.00	0.34	1.00	5.10	5.00	5.10	-----	25 50	2157
0.77	8.39	8.50	8.11	8.00	0.28	0.50	5.02	5.00	5.02	-----	27 05	2127
3.42	11.02	10.50	10.32	10.00	0.70	0.50	2.15	2.00	2.15	-----	26 60	1827
5.20	14.07	12.50	13.01	12.00	1.06	0.50	4.85	5.00	4.85	-----	-----	2083
1.53	12.22	-----	11.50	10.00	0.72	-----	5.28	5.00	5.28	-----	29 25	2111
1.41	11.62	10.00	11.34	10.00	0.28	-----	4.09	4.00	4.09	-----	28 00	1499
2.24	13.32	-----	12.98	12.00	0.34	-----	5.97	5.00	5.97	-----	31 00	1893
1.22	11.04	10.00	10.74	10.00	0.30	-----	2.05	2.00	2.05	-----	26 00	1800
3.85	11.93	10.50	10.69	10.00	1.24	0.50	2.18	2.00	2.18	-----	27 75	1821
4.67	12.39	-----	11.23	10.00	1.16	-----	2.17	2.00	2.17	-----	25 00	1561
2.55	11.37	10.50	10.85	10.00	0.52	0.50	2.36	2.00	2.39	-----	29 00	2208
6.27	13.28	12.50	12.90	12.00	0.38	0.50	3.08	3.00	3.08	-----	34 00	1621
9.07	13.58	12.50	13.16	12.00	0.42	0.50	2.86	3.00	2.86	-----	29 25	1355
4.99	12.26	11.00	11.26	10.00	1.00	1.00	4.90	5.00	4.90	-----	29 50	1266
6.20	11.46	11.00	10.12	10.00	1.34	1.00	2.41	2.00	2.41	-----	26 00	1386
2.75	11.62	-----	11.18	10.00	0.44	-----	1.84	2.00	1.84	-----	25 35	1507
3.42	8.80	9.00	8.46	8.00	0.34	1.00	4.20	4.00	4.20	-----	27 00	1750
3.07	9.00	9.00	8.72	8.00	0.36	1.00	4.54	4.00	4.54	-----	26 00	1503
2.30	9.14	9.00	8.76	8.00	0.38	1.00	4.00	4.00	4.00	-----	28 00	1998

*Deficient.

TABLE VI.—ROCK AND

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
1652 1401 1983	YORK CHEMICAL WORKS, YORK, PA. Ten and Two, ----- Twelve and Two, ----- Twelve and Four, -----	Kimmerhings Grange, Lebanon, ----- E. S. Berkey, Strausstown, ----- J. Harry Summy, Landisville, ----- Average, -----

POTASH FERTILIZERS—Concluded.

Moisture.	PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	\$	
2.10	11.33	10.00	10.79	10.00	0.54	-----	2.26	2.00	2.26	-----	24 67	1652
4.59	13.23	12.00	12.55	12.00	0.68	-----	2.36	2.00	2.36	-----	-----	1401
2.35	13.94	12.00	13.20	12.00	0.74	-----	4.60	4.00	4.60	-----	32 00	1983
3.51	11.35	-----	10.60	-----	0.75	-----	3.66	-----	-----	-----	\$29 66	-----

TABLE NO. VII.—MISCEL.

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
NITRATE OF SODA		
1530	THE COE-MORTIMER CO., SUBSIDIARY OF THE AMERICAN AGRICULTURAL CHEMICAL CO NEW YORK, N. Y. Nitrate of Soda, -----	E. W. White, Adelia, -----
1724	THE HUBBARD FERTILIZER CO., BAL- TIMORE, MD. Hubbard's Nitrate of Soda, -----	D. Z. Miller, Ranson, -----
2063	KEYSTONE BONE FERTILIZER CO., PHILADELPHIA, PA. Nitrate of Soda, -----	Jno. Kunkle, Mahanoy City, -----
1528	NITRATE AGENCIES CO., NEW YORK, N. Y. Naco Brand Nitrate of Soda, -----	G. A. Spencer, Waverly, -----
1719 1525	READING BONE FERTILIZER CO., READING, PA. Nitrate of Soda, ----- Nitrate of Soda, -----	N. L. Chapman, Seranton, ----- C. Gumare, Fleetwood, -----
1318 1728	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD. Nitrate of Soda, ----- Nitrate of Soda, -----	W. Headly, Waymarth, ----- I. G. Williams, Ariel, -----
1320 1855	YORK CHEMICAL WORKS, YORK, PA. Nitrate of Soda, ----- Nitrate of Soda, -----	Hull Brothers, Waymarth, ----- Wm. Romig, Douglassville, ----- Average, -----
SULPHATE OF AMMONIA.		
1526	THE BARRETT COMPANY, NEW YORK, N. Y. Areadian Sulphate of Ammonia, -----	C. Gumare, Fleetwood, -----
1729	F. S. ROYSTER GUANO COMPANY, BALTIMORE, MD. Sulphate of Ammonia, -----	I. G. Williams, Ariel, ----- Average, -----
TANKAGE.		
1722	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK, N. Y. Lister's Ground Tankage, -----	G. R. Clark, Seranton, -----
1374	THE BERG COMPANY, PHILADELPHIA, PA. Ground Animal Tankage, -----	Pomona No. 3 Grange Exchange, West Chester.
1500	MILLER FERTILIZER COMPANY, BALTIMORE, MD. 6% Tankage, -----	State Insane Asylum, Wernersville, -----
1258	THE SCOTT FERTILIZER CO., ELKTON, MD. Animal Tankage, -----	Edw. W. Rupert, Oxford, ----- Average, -----

LANEUS FERTILIZERS.

Moisture.	NITRO-GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
0.50	15.89	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	80 00	1530
0.12	15.92	15.22	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	66 00	1724
0.29	15.90	14.81	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	66 00	2063
0.57	15.62	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	64 00	1328
0.52	15.94	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	69 00	1719
0.65	15.72	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	78 00	1526
0.13	15.84	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	90 00	1318
0.15	15.90	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	62 00	1728
0.97	15.66	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	80 00	1320
0.40	15.72	15.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	54 24	1855
0.43	15.80	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	\$70 92	-----
0.07	21.32	20.75	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	75 00	1526
0.40	21.72	20.56	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	98 00	1729
0.23	21.52	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	\$86 50	-----
4.84	6.00	4.94	14.48	13.00	-----	-----	-----	-----	-----	-----	-----	-----	46 00	1722
3.54	4.41	4.53	16.10	15.00	-----	-----	-----	-----	-----	-----	-----	-----	39 00	1374
4.60	*4.59	4.94	4.34	4.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	1960
7.36	*6.04	7.40	†*7.14	-----	-----	-----	-----	-----	-----	-----	-----	-----	48 00	1358
5.08	5.26	-----	10.52	-----	-----	-----	-----	-----	-----	-----	-----	-----	\$44.33	-----

*Deficient.

†Reg. Guar.

TABLE VII.—MISCELLANEOUS

Chemist's number.	Name of Manufacturer and Brand.	Sample Taken From—
MURIATE OF POTASH.		
	THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, NEW YORK. N. Y.	
1461	Muriate of Potash, -----	H. F. Blair, Huntingdon, -----
1720	Muriate of Potash, -----	G. R. Clark, Scranton, -----
2123	Muriate of Potash, -----	Clarence Hartzell, Bangor, -----
	LEBANON FERTILIZER WORKS, LEBANON, PA.	
1581	Levan's Muriate of Potash, -----	I. E. Artz, Hegins, -----
	MILLER FERTILIZER COMPANY, BALTIMORE, MD.	
1959	Muriate of Potash, -----	State Insane Asylum, Wernersville, -----
	YORK CHEMICAL WORKS, YORK, PA.	
1856	Muriate of Potash, -----	Wm. Romig, Douglassville, -----
	MISCELLANEOUS.	Average, -----
	BAUGH & SONS COMPANY, PHILA- DELPHIA, PA.	
1465	Baugh's Pure Bone and Muriate Potash Mixture, -----	J. L. Bergantz, Huntingdon, -----
1767	Baugh's Pure Bone and Muriate Potash Mixture, -----	James L. Pennock, Chatham, -----
	BONE DRY LIME CORPORATION, CASSADAGA, N. Y.	
2086	Humo-Phos, -----	J. A. Adams, Mercer, -----
	THE JAS. G. DOWNWARD CO., COATESVILLE, PA.	
1615	Special Mixture, -----	M. S. Bailey, Malvern, -----
1994	Special Mixture, -----	John Greenleaf, Quarryville, -----
	FRED E. LORD, ESPY, PA.	
2174	Manure Salt, -----	Fred E. Lord, Espy, -----
	MILLER FERTILIZER COMPANY, BALTIMORE, MD.	
1599	Miller's Bone Product, -----	Miller T. Harkins, Hickory Hill, -----
	THE SCOTT FERTILIZER CO., ELKTON, MD.	
1356	Bone and Acid Phosphate Half-Half, -----	Edw. W. Rupert, Oxford, -----

FERTILIZERS—Concluded.

Moisture.	NITRO- GEN.		PHOSPHORIC ACID.						POTASH.				Selling price per ton at place of selection.	Chemist's number.
	Found.	Guaranteed.	Total.		Available.		Insoluble.		Found.	Guaranteed.	Present as muriate.	Present as sulphate.		
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.						
%	%	%	%	%	%	%	%	%	%	%	%	%	\$	
0.28									53.95	48.00	53.95		62 00	1461
0.30									51.51	48.00	51.51		100 00	1720
0.45									50.86	48.00	50.86		65 00	2123
4.92									55.38		55.38		70 00	1581
0.42									52.66	50.00	52.66			1959
0.27									51.78	50.00	51.78		56 00	1856
1.10									52.69				870 60	
4.50	2.51	2.05	21.87	20.00					6.73	5.00	6.73		48 00	1465
6.22	2.21	2.06	22.99	20.00					*4.64	5.00	4.64		46 00	1797
3.80	*0.61	0.82	9.45	9.64	1.17	0.64	8.28	9.00					32 00	2086
4.17	0.87		9.06		8.80		0.26		6.96		6.96			1615
5.20	1.74		8.90		8.54		0.36		6.64		6.20	0.44	31 00	1994
1.02									24.22	20.00	24.22		34 00	2174
3.47	4.65		19.52		12.85		6.67						39 00	1599
3.19	2.11	1.87	20.10	18.50									34 00	1356

*Deficient.



